SIMULATORS FOR HEALTH CARE EDUCATION

2018 Product Catalog

Gaumard®
Simulators for Health Care Education

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CALL US TOLL FREE AT 800.882.6655

VICTORIA® S2200

Maternal and Neonatal Birthing Simulator

Meet the most lifelike and versatile maternal patient simulator in the world, capable of simulating high-risk low-frequency deliveries, post-partum care emergencies, and non-gravid patient cases for OB/GYN and med-surg training.

Wireless and Tetherless

Victoria's tetherless design is the true definition of a completely wireless patient simulator. All of Victoria's components are housed within the simulator itself, operating quietly and continuously. Gaumard pioneered this revolutionary concept in 2004 to give care providers the ability to perform true "Care in Motion" simulations. Victoria includes our newest advances in tetherless technology. Her internal rechargeable battery and energy efficient technology allow for untethered and uninterrupted simulations that can last upwards of 8 hours. No other maternal and neonatal simulator comes close to providing this level of mobility and freedom. Simulation can occur anywhere training needs to take place. Transport Victoria from the birthing suite to the operating room without interrupting the flow of simulation and learning. With Victoria, educators can implement simulations for triage, team training, and team hand-on and improve performance in areas where mistakes often occur.

HIGHLIGHTS

· Lifelike appearance and anatomical accuracy promotes faster suspension of disbelief
· Smooth full-body skin and seamless joints
· Truly tetherless, wireless, and self-contained; all system components are housed inside Victoria
· Fully operational in transit for care in motion and team training
· Births lifelike full-term baby of realistic weight, length, proportion, and joint articulation
· Supports real monitoring devices (EKG, AED, Auto BP, Fetal Monitor, Pulse Oximeter)
· Supports multiple birthing positions
· Designed for comprehensive shoulder dystocia protocols and postpartum hemorrhage algorithm scenarios
· Innovative birthing baby with programmable heart, lung, and crying sounds, cyanosis, and head movement
· McRoberts and suprapubic pressure detection and logging
· Includes wireless control tablet and patient/fetal monitor
· Easy to use UNI® simulator control software includes 45+ preprogrammed scenarios
· Maternal-fetal-newborn automatic software model, programmable drug syringes, and drug infusion recognition
· Internal rechargeable battery with 10hr battery life
· Optional abdomen converts Victoria into non-pregnant patient for general nursing and GYN exercises

OBSTETRICS | *Maternal and Neonatal Birthing Simulator*

Designed to Deliver Exceptional Training Through a Truly Immersive Experience.

From early pregnancy complications, high-risk deliveries, and postpartum emergencies to non-gravid scenarios for general nursing care, 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.

- 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 participant's performance in real time
- Automatic recognition of 50+ virtual medications
- Wireless and tetherless; up to 10hrs. of battery life
- Supports real monitoring equipment: EKG, capnography, defib., NIBP, TOCO, and pulse oximeters

- Includes Microsoft Surface Pro tablet PC and Virtual Patient/CTG Monitor
- Includes 45+ preprogrammed scenarios
- Video training library covering setup and operation
- Converts into a non-pregnant patient for general nursing and gynecology training

More Than Just Realistic. Exceptionally Lifelike And Anatomically Accurate.

Victoria redefines physical fidelity with her 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.

CALL US TOLL-FREE AT 800.882.6655

OBSTETRICS | *Maternal and Neonatal Birthing Simulator*
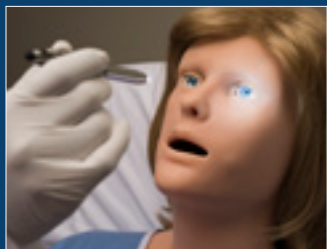
A BREAKTHROUGH IN PATIENT ASSESSMENT LEARNING.

Victoria's new interactive eyes are more than unique—they are game-changing. Victoria can track objects visually and simulate abnormal movement while streaming audio lets you act as the voice of the patient. Engage participants in a realistic dialogue throughout the scenarios to rehearse patient-provider interaction much more effectively.

INTERACTIVE EYES

Victoria's new eye movement and automatic tracking features can illustrate signs of stress, stroke, head trauma, drug use, nerve impairment, and many other diseases and conditions.
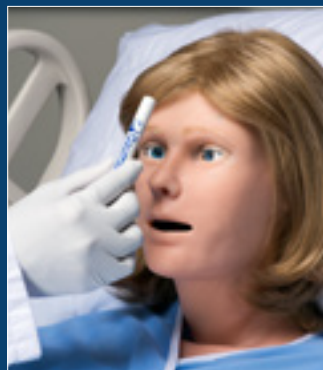
- Accommodation test: automatic horizontal tracking and manual vertical tracking
- Strabismus: exotropia and esotropia
- Nystagmus: eyeball twitching
- Blepharospasm: eyelid twitching
- Ptosis: eyelid droop

- Realistic idle eye movement
- Independent pupillary light reflex
- Mydriasis: blown pupil
- Anisocoria: unequal pupil sizes
- Programmable blinking rate
- Consensual pupillary

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
- Defibrillator
- Pulse Oximeter
- Capnograph
- NIBP Monitor

OBSTETRICS | *Maternal and Neonatal Birthing Simulator*

The Gold Standard in OB Emergency Management Training.

Victoria simulates shoulder dystocia, breech, and C-section deliveries with a level of fidelity that truly suspends disbelief. Participants 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. What's more, Victoria captures participants' performance through an array of hidden sensors to easily track the progress on the way to success.

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 fetal heart rate shown on the fetal monitor
- Suprapubic pressure detection and logging
- Simulate an obstruction at any point during the labor with precise repeatability
- Practice obstetrical maneuvers including Rubin, Wood's Screw, arm sweeps, Loveset, or Zavanelli
- Hip-joint sensors detects and logs leg angles

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.

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

C-SECTION DELIVERIES

Victoria's C-section delivery capability supports the use of 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. Perform low transverse, low vertical, and classical incisions on replaceable multi-layered abdominal inserts with simulated blood.

- Subcutaneous layer
- Fascia
- Rectus muscle
- Peritoneum
- Uterine wall

OBSTETRICS | *Maternal and Neonatal Birthing Simulator*

Following Delivery: Evaluation 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 allows 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

PROGRAMMABLE POSTPARTUM HEMORRHAGE

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 facilitate 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 which allow multiple surgical repairs using real surgical instruments.

- Midline episiotomy with peri-urethral tears
- Mediolateral episiotomy with tears to the labia minora
- Multi-layer fourth degree episiotomy with hemorrhaging vaginal sidewall tears and cervical lacerations

VICTORIA® S2200 | *Features and Specifications*

GENERAL

- Tetherless and wireless; fully responsive during transport
- Wireless control at distances up to 300 ft.
- Internal rechargeable battery provides up to 10 hr. 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
- NOELLE® Fetus-Newborn wireless link capability
- Includes touchscreen tablet PC preloaded with UNI®
- Includes touchscreen virtual patient monitor and CTG

NEUROLOGICAL RESPONSE

- 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 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 capable (CO_2 Adapter S2200.078)

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 cuffs
- 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 delivery and C-section
- 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

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.

UNI®

Unified Simulator Control Software

- Optimized for on-the-fly control
- Preprogrammed scenario library
- Lab report designer
- Virtual patient monitor and TOCO included
- eCPR™ real-time monitoring
- Time-stamped event recording and reporting
- Free software updates

CALL US TOLL-FREE AT 800.882.6655

VICTORIA® S2200 | *Options and Accessories*

VICTORIA® S2200

S2200.PK

Skin tones available at no extra charge ● ● ●

Patented; other patents pending

- Active birthing baby
- Integrated automatic drug recognition
- 20 Programmable Drug Recognition Syringes with labels
- Wireless Simulator Control Tablet PC with rugged bump case
- UNI® Simulator Control Software with Lifetime License
- Includes 45+ preprogrammed scenarios
- Automatic Mode control license
- Streaming voice headset
- Touchscreen vital signs monitor
- RF communications module
- USB wireless router
- Mother and baby battery chargers
- User guide and quick start guide
- Instructor and student training guides
- 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
- Delivery rods
- 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

Skin tones available at no extra charge ● ● ●

Patented; other patents pending

- Super Tory - Wireless and Tetherless Neonatal Patient Simulator
- Wireless Tablet PC with UNI®
- Accessories
- One-Year Limited Warranty

PREMIE HAL® S3009

S3009.PK

Skin tones available at no extra charge ● ● ●

Patented; other patents pending

- Premie HAL - Wireless and Tetherless Premature Neonate Simulator
- Wireless Tablet PC with UNI®
- Accessories
- One-Year Limited Warranty

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

DEEP VEIN THROMBOSIS LEG

2200.101

Skin tones available at no extra charge ● ● ●

The Deep Vein Thrombosis (DVT) package for Victoria® features:

- A 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 including blood thinners like Heparin, unfractionated Heparin, low molecular weight Heparin, and Warfarin. It also contains thrombolytics, such as Alteplase. Includes preprogrammed scenarios covering common causes of DVT such as inactivity, changes in veins postsurgery, injury to blood vessels, and familial tendency.
- Allows the training of sizing, applying, and maintaining of a graduated compression stocking.

MOBILE VIRTUAL MONITOR

S2200.002

MODIFIED PHILIPS® DEFIBRILLATION CABLES

S2200.126
- Adapter cable connects Philips® defibrillators to Victoria defib sites

MODIFIED LIFEPAK® DEFIBRILLATION CABLES

S2200.127
- Adapter cable connects Lifepak® defibrillators to Victoria defib sites

MODIFIED ZOLL® DEFIBRILLATION CABLES

S2200.128
- Adapter cable connects Zoll® defibrillators to Victoria defib sites

CO_2 EXHALATION

S2200.078
- Real and measurable $EtCO_2$
- 10 programmable levels of CO2 output
- Portable design allows continuous monitoring during transport

VICTORIA® S2200 | *Nursing and Gynecology Training*

The GYN and Nursing package includes a scenario library designed to expand your simulation program to cover all American Council of Graduate Medical Education (ACGME) competencies. Additionally, it includes a scenario-based training guide with case documentation, including full patient history, case parameters, and debriefing objectives, to help you increase the effectiveness of each exercise.

NURSING AND GYN SCENARIOS

1. Placement of an Intrauterine Device (IUD)
2. Chronic Abdominal Pain Associated with Opioid Use
3. Sexual Assault
4. Potential Cervical Carcinoma
5. Pelvic Inflammatory Disease
6. Potential Ectopic Pregnancy
7. Laparoscopic Tubal Ligation
8. Hypoxia in the Post Anesthesia / Recovery Area
9. Cardiac Emergency in the Post Anesthesia / Recovery Area
10. Fire in the Surgical Suite
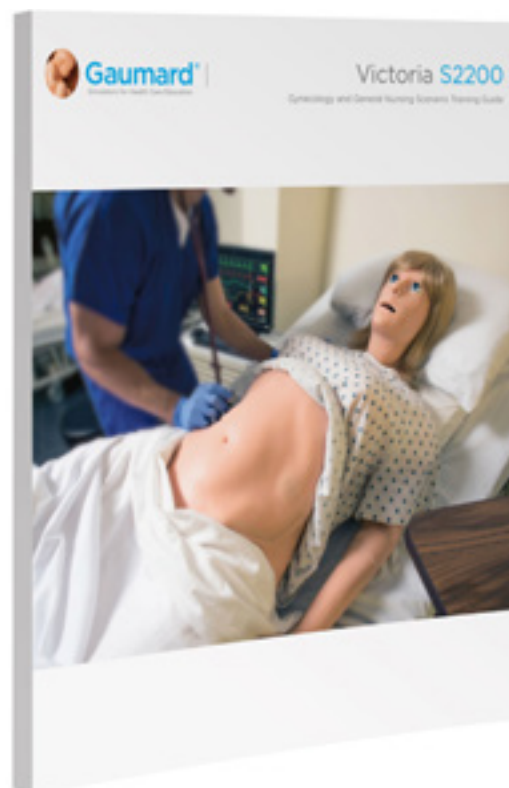
GYN and Nursing Scenario-based Training Guide

Interchangeable retroverted, anteverted, and IUD uteri

Normal and abnormal cervices, including normal parous, polyp, cervical erosion, nabothian cyst, purulent cervicitis, and carcinoma.

Transparent uterus for IUD placement and assessment

Palpable non pregnant abdominal cover

Speculum examination

Programmable bowel sounds

CALL US TOLL-FREE AT 800.882.6655
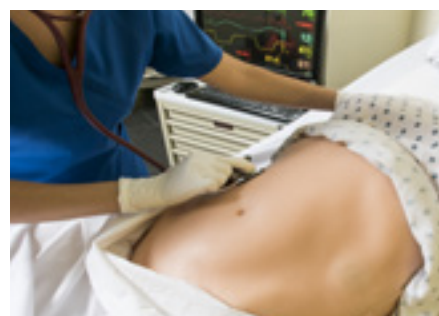
VICTORIA® S2200 | *Nonpregnant Abdominal Cover*

NURSING AND GYNECOLOGIC PACK

S2200.234

Skin tones available at no extra charge ● ● ●

This versatile training package adds gynecologic and nursing capabilities to Victoria, the world's most advanced birthing simulator. Use Victoria as a nursing simulator and perform a "head-to-toe" assessment of your patient, or use the versatile GYN package to perform routine exams as may be performed by nurses pursuing a GYN specialty or by a physician intern or resident in training.

- "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 allowing palpation of the uterus IUD insertion and removal
- Tubal Occlusion
- Minilaparotomy
- Laparoscopy
- Uterine manipulation
- Suppository Placement
- Auscultation of bowel sounds in four quadrants

INCLUDES
- 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

CONSUMABLES AND REPLACEMENT ITEMS

FALLOPIAN TUBES

S2200.119
Replacement fallopian tubes, set of 2

OVARIES

S2200.118
Replacement ovaries, set of 2

NORMAL CERVIX

S2200.146.1
Normal cervix with patent os, set of 5

ABNORMAL SET OF 6 CERVIX

S2200.146.2

Abnormal non-patent cervices, including 1 normal parous and 5 abnormal cervices

ANTEVERTED UTERUS

S2200.110.1

Anteverted uterus including round ligaments and detachable fallopian tubes and ovaries

RETROVERTED UTERUS

S2200.110.2

Retroverted uterus including round ligaments and detachable fallopian tubes and ovaries

IUD UTERUS

S2200.110.3

Transparent uterus for training of IUD placement, including fallopian tubes, ovaries, and round ligaments

PERINEUM ASSEMBLY

S2200.117

Perineum assembly including integrated vagina, rectum, and bladder

NOELLE® S575.100

Advanced Maternal and Neonatal Birthing Simulator

Prepare your learners and staff for even the most complex labor and delivery scenarios. At the click of a button, NOELLE simulates routine and high-risk deliveries for training and assessment. And with tetherless and wireless technology, NOELLE can deliver anywhere, anytime, just like a real patient.

ADVANCED OBSTETRIC SIMULATION | *Epidural Procedures*

EPIDURAL PROCEDURES

Practice epidural procedures on a spinal cord insert with skin layer, subcutaneous layer, connective tissue, and lumbar vertebrae. Anatomic features include: iliac crests, lumbar vertebrae L2 – L5, ligamentum flavum and epidural space. Sensors report and log the moment the needle enters the epidural space, or if it is inserted too far.
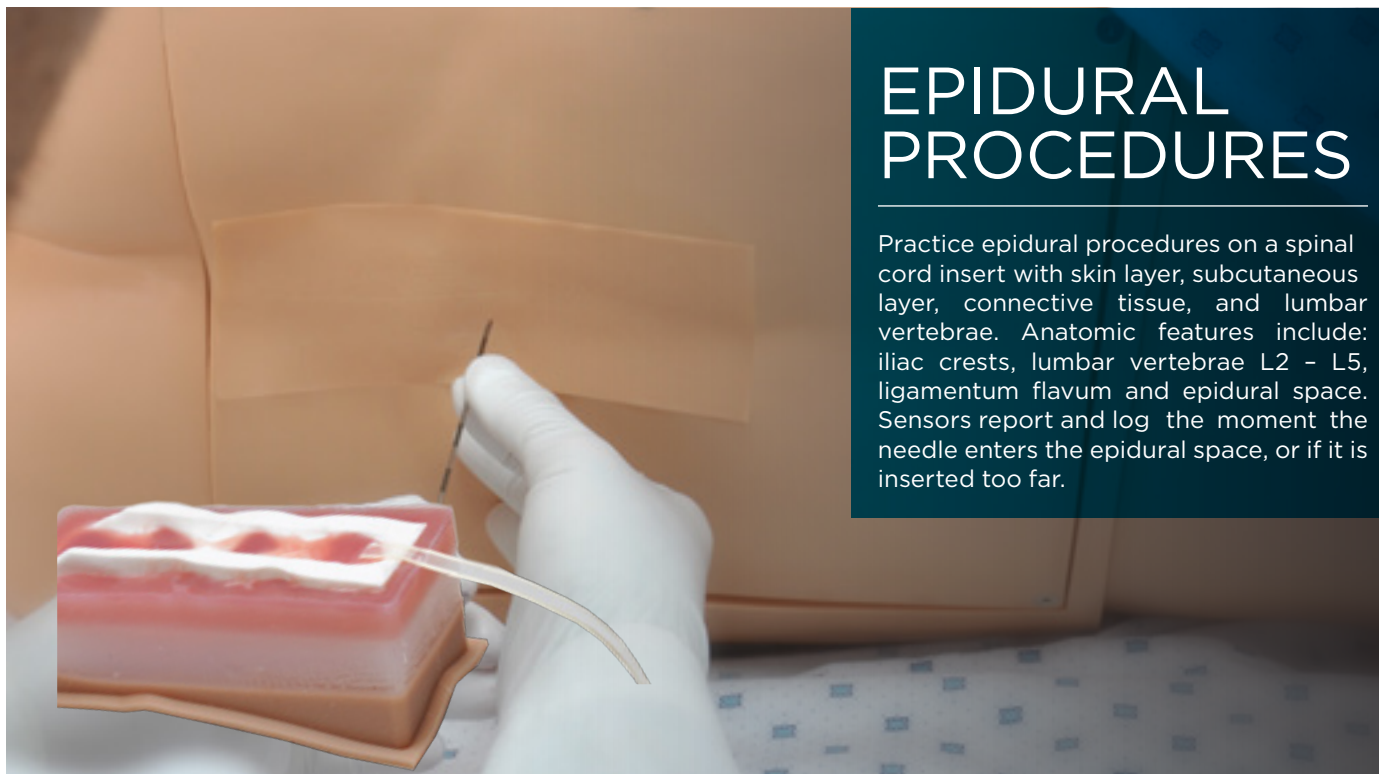
AUTOMATED PRECISION DELIVERY SYSTEM
With the click of a button, NOELLE's automatic delivery system moves the fetus throughout the labor stages for repeatable lifelike births. Built-in sensors track participant interaction and give you real-time performance feedback.

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

PALPABLE CONTRACTIONS
NOELLE's contraction abdominal cover allows palpation of real-time contractions during a scenario. The cover becomes firm as the contraction peaks.
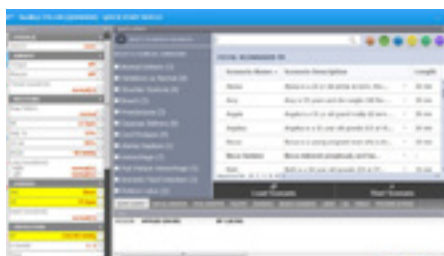
LABOR AND DELIVERY SCENARIO LIBRARY
Start simulation right away. Select from 45+ preprogrammed labor and delivery scenarios including shoulder dystocia, vaginal breech, postpartum hemorrhage, C-section, and much more. Includes supporting scenario training textbooks.

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.

ADVANCED OBSTETRIC SIMULATION | *Practice C-Sections*

PRACTICE C-SECTIONS USING REAL SURGICAL INSTRUMENTS

Multi-layer abdominal wall with skin, subcutaneous tissue, fascia, muscle, and peritoneum for maximum realism. Abdominal inserts have simulated blood incorporated into the subcutaneous layer. Use real surgical instruments for incision, dissection, and suturing.
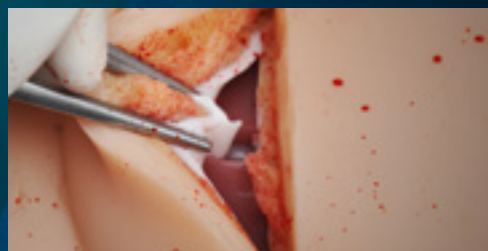
LIFELIKE BIRTH CANAL
New lifelike birth canal simulates human tissue. Birth canals are removable and are designed to withstand more than 75 deliveries.

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

EPISIOTOMY REPAIR
NOELLE's episiotomy repair inserts simulate human tissue and can repeatedly be sutured. Inserts feel and look real.

ADVANCED OBSTETRIC SIMULATION | *Smart Delivery Neonates*

NOELLE® includes two delivery neonates designed to simulate lifelike vertex 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.

SMART VERTEX DELIVERY BABY

The Smart Vertex 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.

TRAIN FOR NEONATAL RESUSCITATION & NEONATAL CARE SIMULATION

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 HAL®

S575.100.PK

Skin tones available at no extra charge ● ● ●

The S3010 Newborn HAL is a wireless full-term baby, perfect for neonatal care simulation. Train participants in assessment, intubation and airway management, CPR, IV or I/O access, ECG, and much more even in transit. HAL includes a dedicated control tablet PC and a library of preprogrammed scenarios that allow you to train staff in team hand-offs and communication.

NOELLE® WITH PREMIE HAL®

S576.100.PK

Skin tones available at no extra charge ● ● ●

The S3009 Premie HAL is a wireless preterm baby designed for lifelike simulation in the NICU, or in transit inside an isolette. Develop premature infant care skills including assessment, intubation and airway management, resuscitation, and much more.   Control Premie HAL using its dedicated tablet PC and run preprogrammed scenarios linked to NOELLE's delivery condition.

ADVANCED OBSTETRIC SIMULATION | *The Noelle® Simulators*

AUTOMATED DELIVERY

Click "Play" to start the automatic delivery system. The motor has automated control of both the descent and rotation of the fetus as it descends.

ASSISTED DELIVERY

Practice assisted vacuum extraction and forcep deliveries.

SHOULDER DYSTOCIA

Lifelike shoulder dystocia presents with notable fetal head retraction to simulate observable "turtle signs." Practice advanced management techniques.

BREECH DELIVERY

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

PLACENTA

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

SCENARIO LIBRARY

Includes 45+ labor and delivery scenarios including high-risk deliveries and postpartum complications. Includes training guides.
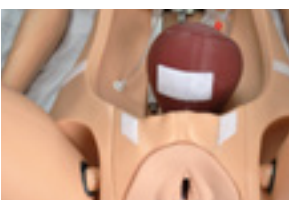
POSTPARTUM ACTIVITY

Use the postpartum uterus and program PPH, perform a fundal massage, practice episiotomy repair and insert and inflate a Bakri Balloon.

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.

ADVANCED OBSTETRIC SIMULATION | *Interactive Maternal & Fetal Monitors*

INTERACTIVE MATERNAL & FETAL MONITORS

The Gaumard virtual maternal and fetal monitors display real-time vital signs and fetal monitoring 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.

INCLUDES VITAL SIGNS MONITORS FOR NOELLE AND NEONATE

- 20in touchscreen Patient Monitor "all-in-one" PC. 17in touchscreen Fetal/Newborn monitor

- Display up to 12 numeric values 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

- 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

Standard 20in "all-in-one" touchscreen monitor to display vital signs

Optional 12in touchscreen tablet to display vital signs

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

ADVANCED OBSTETRIC SIMULATION | *UNI® Software*
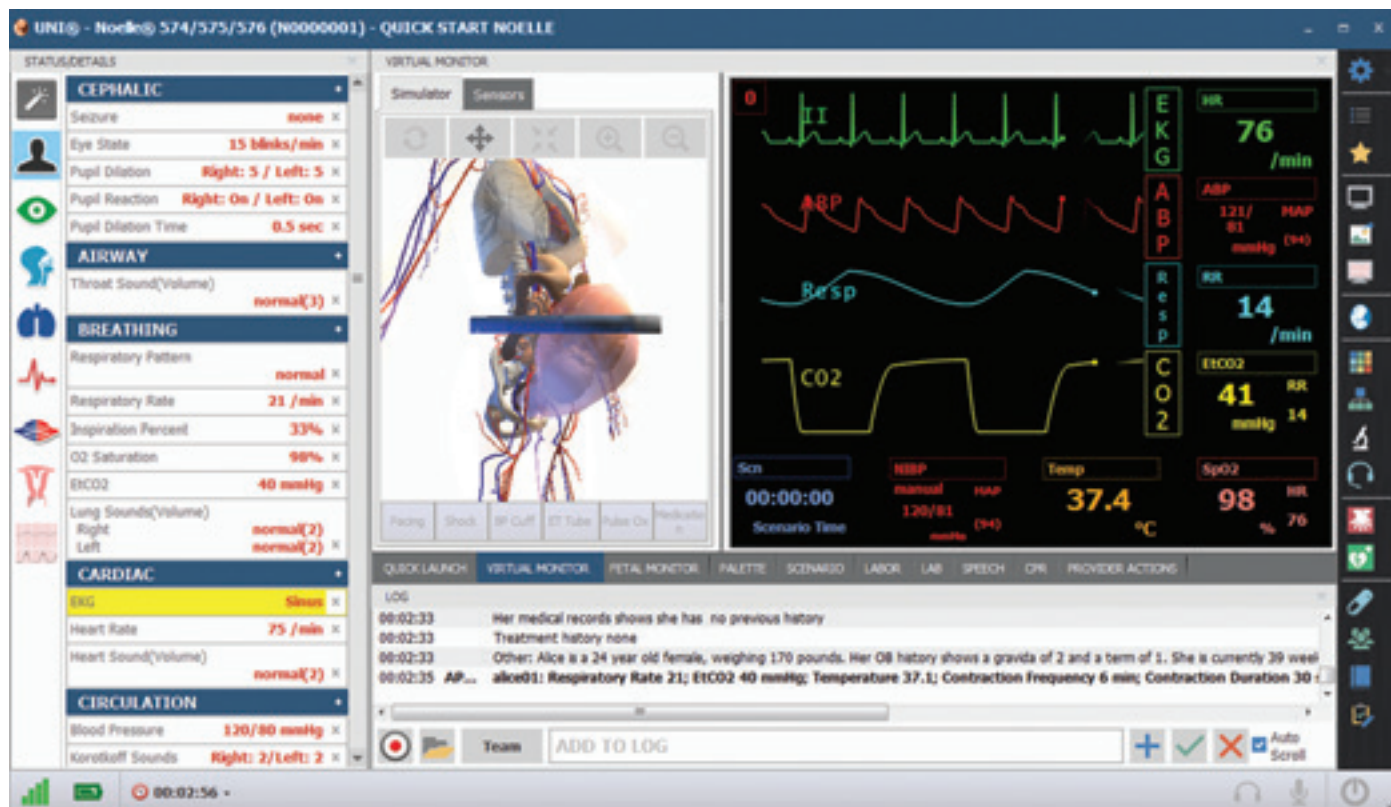
eCPR™

Monitor CPR quality metrics in real-time including rate and compression depth, no-flow time, and excessive ventilation.
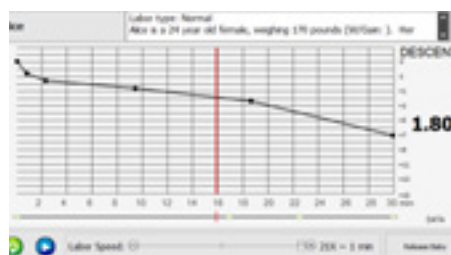
LABOR CONTROL AND DESCENT CURVE

Define labor variables such as labor duration, delivery position, contraction response, and much more. The descent Curve graph defines the position of the fetal head relative to the ischial spines.

PERINATAL MONITOR

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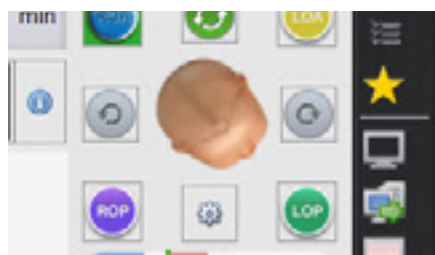
CARDINAL MOVEMENTS

Precise control over both fetal translation and rotation. Start delivery at ROA, LOA, LOP or ROP.
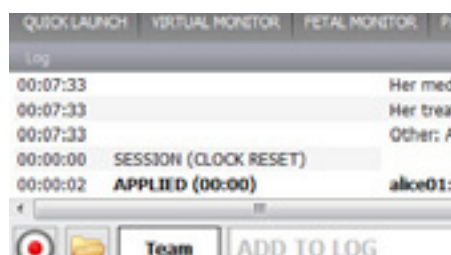
EVENTS LOG

Changes in condition and care provided are time stamped and logged.
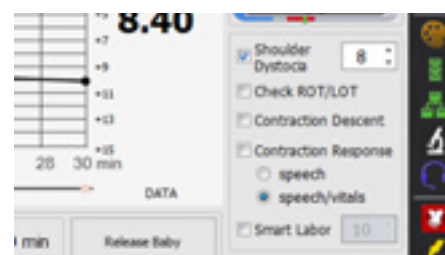
SHOULDER DYSTOCIA

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

ADVANCED OBSTETRIC SIMULATION | *UNI® Software*

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.

BREATHING
RR	13bpm
OSat	98%

CARDIAC
EKG	Sinus
HR	70bpm

CIRCULATION
BP	120/80mmHg
Temperature	37.5°C

UA FHR
Contraction Frequency	5
Contraction Duration	40
Contraction Intensity	40
Resting Tone	8
FHR Baseline	140
Variability	minimal
Accel/Decel Intensity	average
Spontaneous Changes	none
Periodic Changes	none
Variable Changes	none

BREATHING
RR	40bpm
OSat	90%

BOWEL
Bowel Sounds	normal

CEPHALIC
Cyanosis	0%
Muscle Tone	limp

CIRCULATION
BP	60/35mmHg
Temperature	37.5°C

CARDIAC
EKG	Sinus
HR	140bpm

NOELLE | *Smart Delivery Neonates*

NOELLE

FEATURES

- Powerful and intuitive UNI® software
- Practice epidural procedures on a spinal cord insert with skin layer, subcutaneous layer, connective tissue, and lumbar vertebrae
- Practice C-Sections using real surgical instruments
- C-Section Abdominal inserts have simulated blood incorporated into the subcutaneous layer
- Built for a perfect fit into birthing stirrups
- New lifelike birth canal simulates human tissue
- Episiotomy repair inserts simulate human tissue that can be sutured closed repeatedly
- One breech and one vertex fetus
- Anatomic landmarks include bilateral ischial spines, coccyx and pubic bone
- NOELLE's new palpation module includes an amniotic sac creating a natural and realistic feel when practicing palpation exercises
- NOELLE's fetus rotates, dips and rises in response to commands from a wireless tablet PC
- Program tongue edema and pharyngeal swelling

OBSTETRICS

- Realistic birth canal with dilating cervix
- Precision programmable fetal delivery system for repeatable teaching exercises including
  - » *Normal Labor and Birth*
  - » *Instrumented Delivery*
  - » *Shoulder Dystocia*
  - » *Breech Presentation*
  - » *C-Section*
- Delivery system can be programmed for rapid or protracted deliveries
- Program fetal descent over time
- Pause, continue or accelerate labor at any time
- Fetal monitor interacts with labor scenario
- Apply maternal and fetal vital signs at specified points during the labor
- Select descent ONLY during uterine contractions
- Precise control over both fetal translation and rotation
- Start delivery at ROA, LOA, LOP, or ROP
- Program internal and external fetal rotations as needed
- Program dystocia so that each student receives the same scenario
- Save and share scenarios and results for later use
- At least 30 obstetric scenarios that can be modified as the instructor requires
- Ability to quickly and easily create new scenarios as the instructor requires
- Ability to change maternal, fetal or delivery conditions during the scenario
- Measure and log force experienced by fetus and cardinal movement with respect to contractions
- Force and shoulder position is graphed in real time with the uterine contraction
- Fetus may be used for external version
- Install fluids for bleeding and urinary catheterization
- Programmable bleeding from birth canal
- Forceps and Vacuum-Assisted Delivery
- Uterine module for PPH
- Postpartum hemorrhage and fundal massage
- Intrapartum Modeling and Trending
- Shoulder Dystocia
- Breech and Vertex Delivery
- Leopold Maneuver
- C-section: using dissectible stomach cover including realistic skin, subcutaneous, fascia, rectus muscle, and peritoneum
- Episiotomy Repair
- Prolapse of the Umbilical cord
- Placenta Previa

DYNAMIC PERINATAL MONITOR

- Program Uterine Activity
  - » *Control frequency, duration, and intensity of contractions*
  - » *Select resting tone*
  - » *Generate additional contractions during the scenario*
- Program Fetal Heart Rate
  - » *FHR Baseline*
  - » *Select variability*
  - » *Control episodic, periodic, and variable changes*
  - » *Generate FHR patterns at any time*
  - » *Listen to FHR in the External Fetal Monitoring or the Fetal Spinal Electrode Mode*
  - » *Review up to 2 hours of recorded fetal tracings*
  - » *Save/print fetal tracings for debriefing*

TWO BIRTHING FETUSES

- Vertex fetus has a smooth head (no connection port) making vacuum deliveries more realistic
- Breech fetus has a smooth bottom (no connection port) for maximum realism
- Head with fontanelles and sutures
- Headcover for forceps or vacuum augmentation during delivery
- Head flexes as it moves through birth canal
- Suction mouth
- Realistic landmarks
- Jointed arms and legs useful during dystocia and breech exercises
- Umbilicus and placenta; attach placenta to uterine wall, placenta includes retained fragments
- Fetuses are attached to delivery mechanism and can be released wirelessly
- Can be manipulated by the student and either released or retained wirelessly
- Fetal condition and release by command from wireless tablet PC
- Programmable fetal heart sounds before, during and following the delivery

MATERNAL AIRWAY

- Program tongue edema and pharyngeal swelling
- Multiple upper airway sounds synchronized with breathing
- Nasal or oral intubation
- Sensors detect depth of intubation
- 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
- Sellick maneuver brings vocal cords into view

MATERNAL BREATHING

- Automatic chest rise is synchronized with respiratory patterns
- Independent left or right lung sounds synchronized with breathing
- Ventilation may be assisted using BVM, ETT, or LMA
- 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
- Normal and abnormal breath sounds
- Anterior auscultation sites

MATERNAL CARDIAC

- ECGs are generated in real-time with physiologic variations never repeating textbook patterns
- Heart sounds may be auscultated and are synchronized with ECG
- Optional automatic mode allows for the display of virtual dynamic ECG rhythms for each of the 12 leads

MATERNAL CIRCULATION

- Measure blood pressure by palpation or auscultation
- Use a real BP cuff rather than a "virtual" a 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
- Chest compressions are measured and logged
- ECG monitoring using real devices
- Defibrillate, cardiovert and pace using real devices
- Multiple heart sounds
- ECG rhythms are generated in real-time
- Heart sounds synchronized with ECG
- Pacing may be practiced anteriorly to avoid having to roll the patient during delivery
- Bilateral carotid, radial, and brachial pulses synchronized with ECG
- Pulses vary with blood pressure, are continuous and synchronized with the ECG even during, a paced rhythm

MATERNAL NEURAL RESPONSES

- Programmable blinking, dilation and eye response to light
- Programmable duration and intensity of convulsions

MATERNAL SPEECH

- Prerecorded sounds
- Standard two-way wireless streaming audio

WIRELESS STREAMING AUDIO

- Create and store vocal responses in any language
- Instructor can simulate patient's voice and listen to caregiver's conversation wirelessly
- Be the voice of the simulator and hear responses at distances up to 50 meters

VITAL SIGNS MONITOR

- Controlled via wireless tablet PC
- Both maternal vital signs and fetal heart tones
- Use selected configuration or create your own configuration to mimic the monitors used in your facility
- Customize alarms
- Easy to operate and control
- Change maternal or fetal condition during the scenario
- Share images such as ultrasounds, CT scans, and lab results
- Touchscreen control
- Both maternal vital signs and FHTs can be seen at the same time
- Monitor can be configured by the instructor to suit the scenario
- Display up to 8 numerical parameters
- Display up to 5 real-time waveforms in normal mode

NOELLE | *The Noelle® Simulators*

- Display up to 12 real-time waveforms in advanced mode

MATERNAL ARTICULATION & MOVEMENT

- Improved hip articulation for McRoberts maneuver
- Seizure/convulsions
- Tremors
- Able to be placed in the knees/elbows position useful during shoulder dystocia
- Realistic rotation of the shoulder and hip joints
- Legs bend at the knees
- Arms bend at the elbow
- Supine or semi-recumbent positions
- Roll to left lateral position
- Put legs in stirrups

OTHER

- Fill bladder and perform Foley catheterization
- Remains fully functional even while in transit
- Soft carrying case
- Transporting Roller Cart *extra

USER INTERFACE

- Sensors track student actions
- Changes in condition and care provided are time stamped and logged
- View the actions of up to 6 care providers using a responsive menu or write narrative
- Generate and share diagnostic lab results
- File sharing
- Links with optional recording and debriefing system integrating the event log with cameras and patient monitor
- Supplied with wireless tablet PC
- 49 preprogrammed scenarios which can be modified by the instructor even during the scenario
- Create your own scenarios - add/edit
- Change simulator's condition during the scenario
- Optional automatic mode/physiologic model
- Optional integrated three camera recording and debriefing solution

NEWBORN

ADVANCED NEWBORN

- Choice of 30-week Premie or 40-week term
- Term newborn 50th percentile in size
- Wireless and tetherless so that the simulator can be controlled and interventions documented even in transit
- Supplied with tablet PC for ease of movement

NEWBORN AIRWAY

- Realistic airway
- BVM/ET/LMA
- Sellick maneuver
- Multiple upper airway sounds synchronized with breathing
- Oral or nasal intubation
- Sensors detect depth of intubation
- Suctioning techniques can be practiced
- Program blockage of right lung, left lung and both lungs
- Head tilt/chin lift
- Jaw thrust
- Realistic chest rise and fall
- Newborn Breathing
- Automatic chest rise synchronized with respiratory patterns
- Select independent left or right lung sounds synchronized with breathing
- Assisted ventilation with conventional devices
- Ventilations are measured and logged
- Chest compressions generate ECG artifacts
- Detect and log ventilations and compressions
- Simulated spontaneous breathing

- Variable respiratory rates and inspiratory/expiratory ratios
- Bilateral and unilateral chest rise and fall
- Respiratory sounds include both normal lungs as well as stridor and grunting
- Anterior auscultation sites

NEWBORN CARDIAC

- ECGs generated in real time with physiologic variations in rhythm never repeating textbook patterns
- Multiple heart sounds, rates, and rhythms are synchronized with ECG
- Optional automatic mode enables view of dynamic ECG rhythms shown on any of 12 leads

NEWBORN CIRCULATION

- Color responds to hypoxic events and interventions
- Programmable to comply with current or future CPR standards
- Measure blood pressure
- Virtual oxygen saturation
- Fontanelle, brachial and umbilical pulses are synchronized with heart rate and ECG
- IV arm with fill/drain sites
- SubQ and IM injection sites
- Chest compressions measured and logged
- ECG monitoring using real devices
- Multiple heart sounds
- ECGs are generated in real time
- Heart sounds synchronized with ECG
- ECG rhythm monitoring
- Umbilicus may be used for "cut-down" procedure
- Umbilicus has pulse and patent arteries and vein
- Pulse strength varies with BP
- Intraosseous access

NEWBORN SPEECH

- Vigorous cry is synchronized with breathing

NEWBORN VITAL SIGNS MONITOR

- Controlled via wireless tablet PC
- Display neonatal vital signs in real time
- Use selected configuration or create your own configuration to mimic the monitors used at your facility
- Customize alarms
- Easy to operate and control
- Modify newborn's condition during the scenario
- Share images such as ultrasounds, CT scan, lab results
- Newborn heart tones
- Touchscreen control
- Display up to 8 numeric values
- Select up to 5 real-time waveforms in normal mode
- Select up to 12 real-time waveforms in advanced mode
- Display pre-ductal and post-ductal oxygen saturation
- Display blood glucose level

NEWBORN ARTICULATION & MOVEMENT

- Seizure/convulsions**
- Programmable arm movement and posture respond to hypoxic events and interventions**
- Realistic rotation of the shoulder/hip joints
- Legs bend at the knees
- Arms bend at the elbow
- Remains fully functional even in transit

**Feature not available with Premie HAL

NOELLE S574.100

S574.100.PK

Skin tones available at no extra charge ● ● ●

NOELLE *with Newborn HAL*

S575.100.PK

Skin tones available at no extra charge ● ● ●

NOELLE *with Premie HAL*

S576.100.PK

Patented; other patents pending

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

AUTOMATIC DRUG RECOGNITION

S574.100.400R
S575.100.400R
S576.100.400R

Skin tones available at no extra charge ● ● ●

- Identifies drug type and volume injected into veins of the right hand and forearm
- Supplied with 20 syringes with wireless tags
- Use drugs from library or choose to model other drugs using software template
- Physiologic models update simulated vital signs monitors
- Additional packs of 20 syringes with tags available
- Supplied with easily replaceable veins

NOELLE® S555.100

MOES™ Mobile Obstetric Emergencies Simulator

NOELLE® S555.100 | *MOES™ Mobile Obstetric Emergencies Simulator*

MOES™

MOES™ is a comprehensive package of simulator technology, scenario-based training, and performance measurement and debriefing tools designed to build competencies needed to help manage OB emergencies.

- Ideal for small institutions to conduct team training for high-risk, low-volume emergencies with the Foundation scenarios included
- Excellent for large institutions and simulation centers that require a high fidelity simulation package. Advanced scenarios available.

NOELLE® SIMULATOR

Full-size NOELLE® maternal and neonatal birthing simulator with precision delivery system for repeatable rapid deliveries as well as those taking hours.

NEWBORN WITH CYANOSIS AND PULSES

Full-term intubatable newborn with pulses and cyanosis.

TOUCHSCREEN MONITOR

Communicates wirelessly to laptop. Displays up to 8 values including HR, ABP, RR, CO_2, SpO_2, temperature, NIBP, and time. Mobile monitoring station included with vital signs monitor.

LAPTOP

Laptop provided connects to and controls NOELLE®, Newborn, and the Micro+ Recording and Debriefing system. Wireless communications between laptop and monitors provides real-time vitals.

NOELLE® S555.100 | *MOES™ Mobile Obstetric Emergencies Simulator*

MOES™ courseware was developed by COL Shad Deering MD et al. at the Madigan Army Medical Center.

MOES™ COURSEWARE SCENARIO HANDBOOK

Each scenario has a corresponding section in the Scenario Handbook, complete with basic instructions, case flow/algorithm, debriefing instructions, evaluation form, and a brief didactic.

HANDBOOK COMPONENTS

- Basic instructions for participants
- Simulation setup
- Case flow/algorithm with branch points and completion criteria
- Debriefing instructions
- Evaluation form
- Brief didactic

DVD WITH SCENARIO INTRODUCTION, SETUP & QUICKSTART VIDEOS

Learn to set up and run each MOES™ scenario with our introduction, setup, and quickstart videos.

MOES™ SCENARIOS PRE-PACKAGED INTO UNI® SOFTWARE

Obstetric emergency scenarios pre-installed on the UNI™ software.

LAPTOP WITH MICRO+ RECORDING & DEBRIEFING SYSTEM

Real-time capture of video, audio, log file and patient monitor feeds. Enables high-quality post-simulation debriefing.

AUDIENCE RESPONSE SYSTEM FOR MICRO+

Our Audience Response System, complete with five wireless keypads and an RF receiver, provides the perfect tool for post-simulation evaluation.

NOELLE® S555.100 | *MOES™ Mobile Obstetric Emergencies Simulator*

BREECH VAGINAL DELIVERY

26-year-old at 36+0 weeks presents to the triage room of Labor and Delivery. On exam the fetus is in breech presentation with...

ECLAMPTIC SEIZURE

The patient is a 19-year-old at 38+4 weeks who was admitted in active labor this morning. Her prenatal course was uncomplicated. Her cervical examination...

NEONATAL RESUSCITATION

You have been called to help resuscitate an infant that was born less than a minute ago via a vacuum delivery for fetal distress complicated by shoulder dystocia...

OPERATIVE VAGINAL DELIVERY

The patient is a 26-year-old at 38+5 weeks GA. Her obstetrical history is significant for one previous full-term SVD of a 7lb male infant...

POSTPARTUM HEMORRHAGE

You have just started your labor and delivery shift. The nurse comes to get you and says that this patient has just had a precipitous delivery...

SHOULDER DYSTOCIA

The patient is a 35-year-old at 41+1 weeks gestation. AMA has complicated her prenatal course with a normal amniocentesis and a positive 1-hour glucola...

UMBILICAL CORD PROLAPSE

A 25-year-old at 40+3 weeks presents to Labor and Delivery with a chief complaint of regular uterine contractions. On examination...

HIGHLIGHTS
- Prepare for OB emergencies; evaluate and report on training and clinical outcomes
- 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
- Maternal vital signs monitor
- Fetal heart tones and neonatal vital signs monitor
- Standardized curriculum
- Set up and run OB emergency simulations for shoulder dystocia, postpartum hemorrhage, eclampsia, umbilical cord prolapse, breech vaginal delivery, operative vaginal delivery, neonatal resuscitation

EASY TO USE
- Standardized curriculum developed by health care professionals
- Set up and run OB emergency simulations for shoulder dystocia, postpartum hemorrhage, eclampsia, umbilical cord prolapse, breech vaginal delivery, operative vaginal delivery, neonatal resuscitation
- Scenarios include instructions, case flow algorithm, questions and pitfalls, instructions for debriefing, evaluation form, key teaching points and a brief didactic
- Videos show how to set up each scenario and then present an example of it being run
- Integrated audience response system
- Discuss best practices and review how to improve

GENUINE NOELLE® SIMULATOR
- Intubatable airway with chest rise
- Chest compressions and ventilations are measured and logged
- IV arms for meds/fluids
- Removable stomach cover
- Programmable eclampsia with 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
- Maternal speech

NEWBORN WITH CYANOSIS AND PULSES
- Fullterm intubatable newborn with cyanosis and umbilical pulse
- Chest compressions and ventilations are measured and logged
- Realistic heart and lung sounds
- Realistic crying

MOES™
- MOES™ is a comprehensive package of simulator technology, scenario-based training, and performance measurement and debriefing tools designed to build competencies needed to help manage OB emergencies
- Implements a "dual debrief" strategy where team members debrief as a group following the simulated OB emergency; then, "one-on-one" debriefing focuses on improving individual skills
- Uses TeamSTEPPS debriefing to improve the quality and safety
- Implemented in 41 States and 14 Countries across the world
- Audience Response System for Evaluation

- Participants and observers receive coded wireless keypads (five keypads and one RF receiver included)
- Keypads used to answer standardized questions
- Responses of participants and observers are used during initial debriefing
- Facilitators then evaluate team performance using validated checklists developed by health care professionals
- Audience response system permits data tracking over time and across units

SIMULATED VITAL SIGNS MONITOR
- Single large 23in touchscreen monitor with desktop controller and wireless communication to laptop
- 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 plus FHTs
- Perinatal monitor with programmable uterine activity and fetal heart rate

LAPTOP WITH RECORDING AND DEBRIEFING SYSTEM
- 15in laptop with carrying case
- USB communications module with connection to NOELLE® and her Newborn
- Wireless communications between laptop and touchscreen monitors
- Real-time capture of audio and video
- Integrates log file and patient monitor with A+V feeds
- 1 USB wired camera with microphone

LEARNING RESOURCES
- MOES™ Scenarios in UNI® Software
- Scenarios Handbook
- MOES™ Setup Video
- MOES™ Scenarios Video

OTHER
- Available in ethnic skin tones at no extra charge
- Simulator soft carrying case
- FCC, IC, CE Certifications
- One-Year Limited Warranty
- Extended warranty plans available

NOELLE® MOES™

S555.100.PK

Skin tones available at no extra charge

Patented; other patents pending

NOELLE® S554.100

Maternal and Neonatal Birthing Simulator

NOELLE® S554.100 | *Maternal and Neonatal Birthing Simulator*

Full-size NOELLE® maternal and neonatal birthing simulator with precision delivery system for repeatable, rapid delivery as well as those taking hours

NEWBORN WITH CYANOSIS & PULSES

Full-term intubatable newborn with pulses and cyanosis

TOUCHSCREEN PATIENT MONITOR

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

NOELLE® & 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.

NOELLE® S554.100 | *Maternal and Neonatal Birthing Simulator*

SCENARIO LIBRARY

Includes 45+ labor and delivery scenarios including high-risk deliveries and postpartum complications; scenario guides include discussion questions, objectives, and student evaluations.

AUTOMATED DELIVERY

Simply click "Play" to start the labor. The internal delivery system controls the descent and rotation of the fetus automatically.

PRECISE SCENARIO REPEATABILITY

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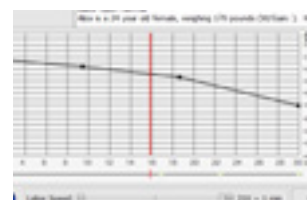
CUSTOMIZABLE LABOR

Control labor variables such as labor duration, delivery position, contraction response, and much more. Descent Curve graph defines the position of the fetal head relative to the ischial spines.
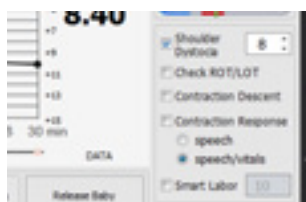
SHOULDER DYSTOCIA

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

DYSTOCIA TURTLE SIGNS

Lifelike shoulder dystocia presents with notable fetal head retraction to simulate observable "turtle signs." Practice advanced management techniques.

BREECH DELIVERY

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

ASSISTED DELIVERY

Practice assisted vacuum extraction and forceps deliveries.

PERINATAL MONITOR

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

PLACENTA

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

POSTPARTUM ACTIVITY

Use the postpartum uterus and 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® S554.100 | *Maternal and Neonatal Birthing Simulator*

HIGHLIGHTS

- Prepare for OB emergencies; evaluate and report on training and clinical outcomes
- 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
- eCPR™
- Maternal vital signs monitor
- Fetal heart tones and neonatal vital signs monitor
- 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, preterm labor and birth
- Discuss best practices and review how to improve
- 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
- Maternal speech

UNI® eCPR™ Real-time effectiveness feedback

NEWBORN WITH CYANOSIS AND PULSES

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

SIMULATED VITAL SIGNS MONITOR

- Single large 23in touchscreen monitor with desktop controller and wireless communication to laptop
- 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

LAPTOP

- 15″ in laptop
- USB module with connection to NOELLE® and her Newborn
- •Wireless communications between laptop and touchscreen monitors

OTHER

- Available in light, medium, and dark skin tones at no extra charge
- Simulator soft carrying case
- FCC, IC, CE Certifications
- One-Year Limited Warranty
- Extended warranty plans available

NOELLE®

S554.100.PK

Skin tones available at no extra charge ● ● ●

Patented; other patents pending

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

NOELLE® S550.100.250

Birthing and Neonatal Resuscitation
Training Simulator

NOELLE® S550.100.250 with OMNI®2 | *Simulation-Based Obstetric Training*

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.

COMPLETE, READY-TO-USE, AND AN EXCEPTIONAL VALUE

The NOELLE S550.100.250 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 training guidebooks.

OMNI® 2 WIRELESS TABLET
Touchscreen controls, feedback, and debriefing

AUTOMATIC DELIVERY
Repeatable birthing scenarios with 1-touch operation

PATIENT/FETAL MONITORING
Assessment, management, and documentation

NEONATAL RESUSCITATION
Evaluate CPR quality in real time

NOELLE® S550.100.250 with OMNI®2 | *Childbirth*

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 1 touch.
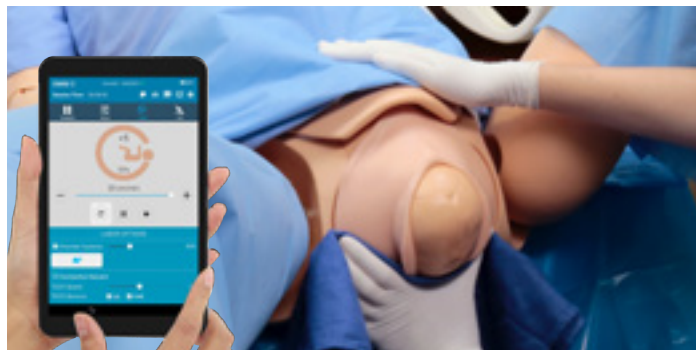
SHOULDER DYSTOCIA MANAGEMENT

• Automatic retraction of the fetal head
• Obstetrical maneuvers: Suprapubic pressure, McRoberts, Zavanelli, and more
• Automatically simulates fetal distress visible on fetal monitor

DELIVERY CONTROLS
Labor speed, dystocia, uterine activity, and more

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

CESAREAN SECTION
Train surgical and post-op care using real instruments

NOELLE® S550.100.250 with OMNI®2 | *Neonatal and PPH Emergencies*

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.

- Realistic airway featuring anatomically accurate landmarks
- Oral or nasal intubation
- Realistic chest rise with BVM ventilation
- Real-time CPR monitoring
- Effective ventilation returns visible cyanosis to healthy skin color
- Virtual patient monitor support

AIRWAY MANAGEMENT
Supports nasal/oral intubation and fluid suctioning

REAL-TIME CPR FEEDBACK
CPR quality monitoring and performance reports

UMBILICAL CATHETERIZATION
Arterial/venous access and palpable pulse

RESPIRATORY DISTRESS MODEL
Simulate respiratory distress with 1-touch

I/V AND I/O TRAINING
Available with IV sites for meds administration
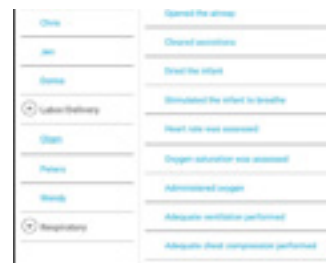
ALGORITHM CHECKLIST
Track algorithm objectives for effective debriefing

POSTPARTUM EMERGENCIES

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

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

FUNDAL MASSAGE
Practice palpation and fundal massage

PATIENT VITALS
Simulate responses to medications on-the-fly

UTERINE TONE
Easily adjust muscle tone on-the-fly

INTRAUTERINE BALLOON
Supports placement of intrauterine balloon

EXTERNAL BLOOD RESERVOIR
Easy refilling and post-exercise cleaning

EPISIOTOMY REPAIR
Train episiotomy repair using real instruments

NOELLE® S550.100.250 with OMNI®2 | *Comparison*

Features	S550.100.250.PK	S550.250.PK	S551.250.PK
Full-body pregnant female patient with articulated joints	•	•	•
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	•	•	•
NOELLE® Scenario Instructor/Student training guide	•	•	•
Resuscitation Neonate Features			
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	•	•	–
Accessories			
Virtual Patient Monitor	•	○	○
Palpation/Leopold/Version abdominal cover	○	○	○
Cesarean abdominal cover	○	○	○
Workbook of OB/GYN simulation	○	○	○

•-Standard, ○-Optional

OMNI 2 WIRELESS TABLET

- Program over 35 vital sign parameters including HR, ECG, RR, BP, O2SAT, EtCO2, 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/decels
- Contraction frequency, duration, intensity, and resting tone
- Coupling, variability, spontaneous changes
- Neonatal respiratory distress modeling
- Neonatal resuscitation trainer

VIRTUAL PATIENT MONITOR

- Touchscreen interface
- Customizable layout can mimic standard patient monitors
- Customizable high/low alarms
- Displays numerical parameters and waveforms including HR, ECG, RR, BP, O2SAT, EtCO2
- FHR and TOCO strip
- EFM and FSE heart tones
- Trace history w/ print capability

OBSTETRICS

NOELLE® S550.100.250 with OMNI®2 | *Models and Options*

NOELLE WITH PEDI BLUE NEONATE AND OMNI® 2

S550.100.250.PK

Skin tones available at no extra charge ● ● ●
Patented; other patents pending

- NOELLE simulator with OMNI 2 Tablet, automatic birthing system, birth canal, placenta, umbilical cords, lubricant, delivery fetus, abdominal cover, 48-hour uterus, blood kit, episiotomy kit, user guide, power supply, vein set, carrying bag.
- PEDI® Blue OMNI 2 Tablet, accessories
- Virtual Patient Monitor
- 1-Year limited warranty

NOELLE WITH NEONATAL CARE TRAINER AND OMNI

S550.250.PK

Skin tones available at no extra charge ● ● ●
Patented; other patents pending

- NOELLE simulator with OMNI 2 Tablet, automatic birthing system, birth canal, placenta, umbilical cords, lubricant, delivery fetus, abdominal cover, 48-hour uterus, blood kit, episiotomy kit, user guide, power supply, vein set, carrying bag.
- Full-body Neonatal care trainer accessories
- 1-Year limited warranty

NOELLE WITH OMNI 2

S551.250.PK

Skin tones available at no extra charge ● ● ●
Patented; other patents pending

- NOELLE simulator with OMNI 2 Tablet, automatic birthing system, birth canal, placenta, umbilical cords, lubricant, birthing fetus, abdominal cover, 48-hour uterus, blood kit, episiotomy kit, user guide, power supply, vein set, carrying bag.
- 1-Year limited warranty

ACCESSORIES AND OPTIONS

BEDSIDE VIRTUAL MONITOR

S550.250.001.R2

Skin tones available at no extra charge ● ● ●

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

IV TRAINING ARM FOR PEDI BLUE

S320.100.250.803R.IV

Skin tones available at no extra charge ● ● ●

- Right arm IV access
- Manual brachial and radial pulse

PALPATION ABDOMINAL COVER

S550.250.009.R2

Skin tones available at no extra charge ● ● ●

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

I/O LEG

S320.100.250.702R

Skin tones available at no extra charge ● ● ●

- Right leg tibia I/O access
- Right leg femoral pulse
- Left leg tibial and popliteal pulse

CESAREAN ABDOMINAL COVER

S550.250.007.R2

Skin tones available at no extra charge ● ● ●

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

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NOELLE® S550.100 | *Maternal and Neonatal Birthing Simulator*

NOELLE® MATERNAL BIRTHING SIMULATOR WITH PEDI® BLUE NEONATE

Gaumard® childbirth simulators have been a part of Maternal and Child health programs for more than 60 years. This comprehensive teaching system combines the best of our patient care simulators with the Advanced Childbirth Simulator. It is designed to provide a complete birthing experience before, during and after delivery.

FEATURES

• Full-size articulating full-body female
• Intubatable airway with chest rise eCPR™
• 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
• PEDI® Blue Neonatal Simulator with SmartSkin™
• New postpartum hemorrhage and palpation module
• Monitor and log ventilations and compressions with OMNI® Code Blue Pack. View feedback on your OMNI device or any Windows computer

TURNKEY PACKAGE INCLUDES:

• NOELLE® Full-body maternal birthing simulator
• Automatic birthing system
• PEDI® Blue Neonate (S320.100)
• Articulating birthing fetus
• (1) Maternal and (1)Neonate Code Blue Pack
• Omni® controller
• Omni® Code Blue® pack: CPR Link software, CPR Link connection cable, CPR module pre-installed in simulator
• Two umbilical cords
• Two dilating cervices
• Two umbilical clamps
• Three vulvae for postpartum suturing
• International power supply 100-240 VAC
• Talcum powder and silicone lubricant
• NOELLE® training guide
• NOELLE® Teaching Tips with carrying bags

NOELLE®

S550.100.PK

Skin tones available at no extra charge ● ● ●

Patented; other patents pending

Monitor ventilations and chest compressions with Omni® Code Blue® pack
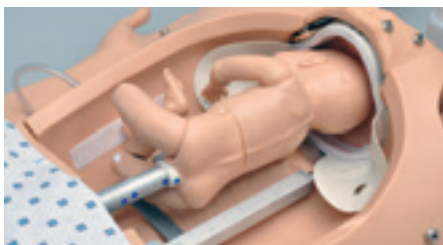
Birthing mechanism and birthing baby

Extensible dilating cervix permits students to conduct vaginal exams and record results

NOELLE® S550.100 | *Maternal and Neonatal Birthing Simulator*

Episiotomy module supplied with the S550.100

Cynthia illustrates a shoulder dystocia scenario with "turtle sign." The student must recognize the problem and deliver the baby using suprapubic pressure, McRobert's Maneuver, or posterior arm sweep

Simulate postpartum hemorrhaging and train fundal massage

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

NOELLE S550 SERIES REPLACEMENT DILATING CERVICES PACK

S550.100.935

S550.935

S551.935

Skin tones available at no extra charge ● ● ●

- Realistic cervical dilation
- Set of two
- Durable construction

BIRTH CANAL

S550.100.971

S550.971

S552.971

Skin tones available at no extra charge ● ● ●

- One lifelike birth canal
- One adapter sleeve

NOELLE® S550 and S551 | *Maternal and Neonatal Birthing Simulator*

Perform eCPR on maternal and neonatal simulators using OMNI® controller

NOELLE® MATERNAL & NEONATAL BIRTHING SIMULATOR

FEATURES

- Full-size articulating full-body female
- Intubatable airway with chest rise
- eCPR
- 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
- One resuscitation baby with intubatable airway and umbilical catheter site
- New postpartum hemorrhage and palpation module
- Monitor and log ventilations and chest compressions with Omni® Code Blue® Pack.

TURNKEY PACKAGE INCLUDES

- NOELLE® Full-body maternal birthing simulator
- Automatic birthing system
- Full-body newborn airway trainer
- Articulating birthing fetus
- Maternal Code Blue® Pack
- Omni® controller

  » Omni® Code Blue® pack: CPR Link software, CPR Link connection cable, CPR module pre-installed in simulator

- Two umbilical cords
- Two dilating cervices
- Two umbilical clamps
- Two vulval inserts
- Three vulvae for postpartum suturing
- International power supply 100-240 VAC
- Talcum powder and silicone lubricant
- NOELLE® training guide
- NOELLE® Teaching Tips with scenarios
- Carrying bags

NOELLE®

S550.PK

S551.PK (NOELLE ONLY)

Patent No 6,503,087 and 7,114,954

Skin tones available at no extra charge ● ● ●

Multiple fetal heart sounds heard through conventional stethoscope

Resuscitation baby has intubatable airway and patent umbilical vein

Extensible dilating cervix permits students to conduct vaginal exams

NOELLE® S550 / S551 / S552 | *Maternal and Neonatal Birthing Simulator*

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 are discussed in the B500 NOELLE® Instructor Guide
• Create any FHTs your teaching curriculum requires with the Custom Editor
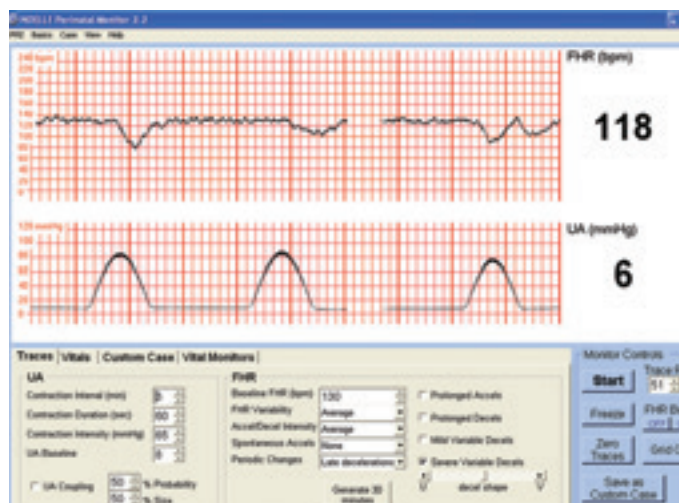
NOELLE® PERINATAL MONITORS

CD500 CD-ROM
CD501 with Scenario Builder

NOELLE® ULTRASOUNDS

• Order a library of ultrasounds with NOELLE®. Contains digital videos of normal and abnormal fetuses from 11 to 37 weeks gestation
• Select normal or abnormal images
• Images are dynamic and repeat every 5-15 seconds
• Each image is provided with a description which is accessed by using the scrolling at the right

NOELLE® FETAL ULTRASOUNDS SOFTWARE

CD606

NOELLE® S550 / S551 / S552 / Accessories | *Maternal Birthing Simulator*

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

NOELLE® BIRTHING TORSO WITH OMNI 2

The new NOELLE S552 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
- Measure head descent and cervical dilation
- Multiple placenta positions
- Practice postpartum suturing on vulval inserts
- Practice Leopold Maneuvers

INCLUDES

- Realistic placenta
- Umbilical Cord
- Birth canal
- OMNI® 2 Controller
- (2) Episiotomy suture trainer
- Lubricant
- NOELLE® training guide
- NOELLE® teaching guide and scenarios
- Carrying bag

Repeatable fetal presentation, rotation, and descent

Practice shoulder dystocia delivery techniques

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

NOELLE® BIRTHING TORSO WITH OMNI 2

S552.250.PK

Patents 6,503,087 and 7,114,954

Skin tones available at no extra charge ● ● ●

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 learn critical thinking and decision making skills.

NOELLE® S550 / S551 / S552 / Accessories | *Maternal Birthing Simulator*

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

INCLUDES

- Two umbilical cords and clamps
- Two dilating cervices
- Two vulval inserts
- One OMNI® controller
- Three vulvae for postpartum suturing
- Talcum powder and silicone lubricant
- NOELLE® training guide
- NOELLE® teaching guide and scenarios
- Carrying bag

NOELLE® BIRTHING TORSO

S552.PK

Patents 6,503,087 and 7,114,954

Skin tones available at no extra charge ● ● ●

Articulating fetus is ideal for abdominal palpation

Soft cushion enables fetal baby to be placed into position for practice of Leopold Maneuvers
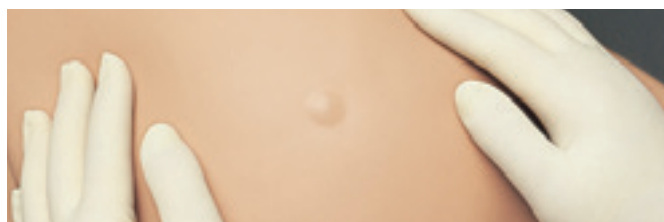
Practice Leopold maneuvers and listen to fetal heart sounds

Three vulval inserts for postpartum suturing training

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
- Leopold's, version, PPH management, episiotomy repair, and more

SUPER OB SUSIE® S500.300 | *Childbirth Training Torso*

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.

- Leopold's maneuvers and version (ECV)
- C-section delivery
- PPH management
- Episiotomy repair
- Cervical dilation and effacement trainer
- 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
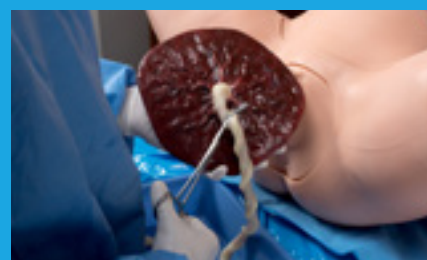
Placenta delivery and examination

SUPER OB SUSIE® S500.300 | *Childbirth Training Torso*

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

SUPER OB SUSIE® S500.300 | *Childbirth Training Torso*

OB SUSIE® CHILDBIRTH TRAINING TORSO

S500.300.PK

Skin tones available at no extra charge ● ● ●

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

Skin tones available at no extra charge ● ● ●

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

Skin tones available at no extra charge ● ● ●

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

Skin tones available at no extra charge ● ● ●

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

Maternal and Neonatal

MATERNAL AND NEONATAL | *Birthing Torsos*

ADVANCED OB SUSIE® S500.200

S500.200.PK

Skin tones available at no extra charge ● ● ●

OB SUSIE® S500.100

S500.100.PK

Skin tones available at no extra charge ● ● ●
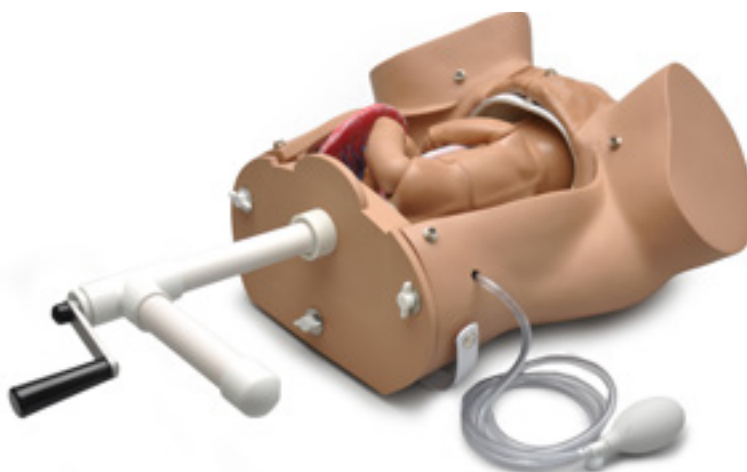
S500 ORIGINAL CHILDBIRTH SKILLS TRAINER

Original SIMA Models®

S500.PK

Skin tones available at no extra charge ● ● ●
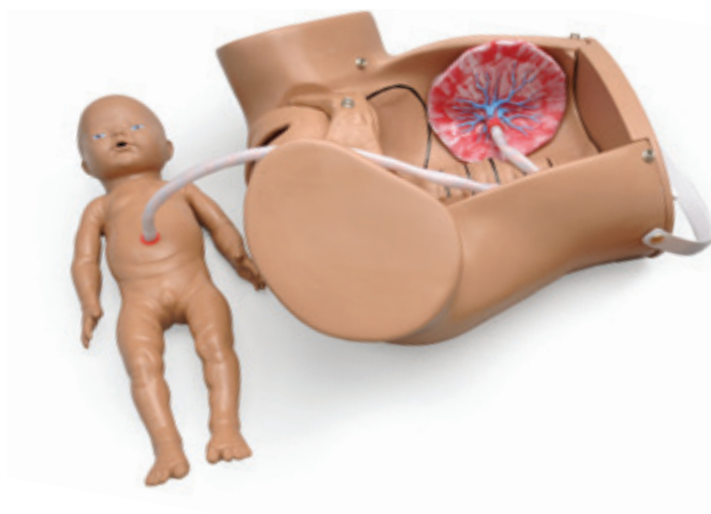
ADVANCED OBSTETRIC SUSIE® | *S500.200*

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

Skin tones available at no extra charge

ADVANCED OBSTETRIC SUSIE® | *S500.200*

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.
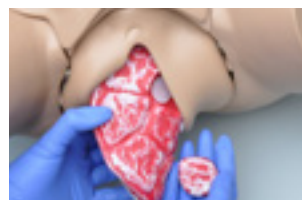
DELIVERY OF PLACENTA

Position placenta to simulate placenta previa. Placenta also has detachable fragments.

PLACE CLAMPS, CUT UMBILICUS

Includes four umbilical chords 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, accepts umbilical catheter.
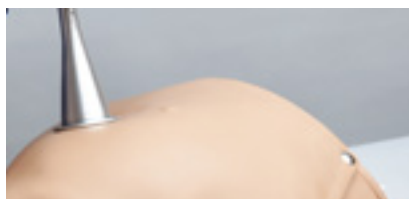
FETAL HEART TONES

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*

OB SUSIE® S500.100

S500.100.PK
Patent 6,503,087

Skin tones available at no extra charge ● ● ●

FEATURES
- Versatile
- Portable
- Normal or breech deliveries
- Leopold maneuvers
- Intrauterine manipulation
- Cord prolapse
- Placenta previa
- Fundal massage
- Postpartum care
- Normal or breech delivery
- Demonstrate internal rotation, expulsion and external rotation
- Inflatable cushion lifts fetus for
- Leopold maneuver
- Practice intrauterine manipulation to convert breech or transverse to vertex delivery
- Adaptive birth canal to demonstrate dystocia and deal with its relief
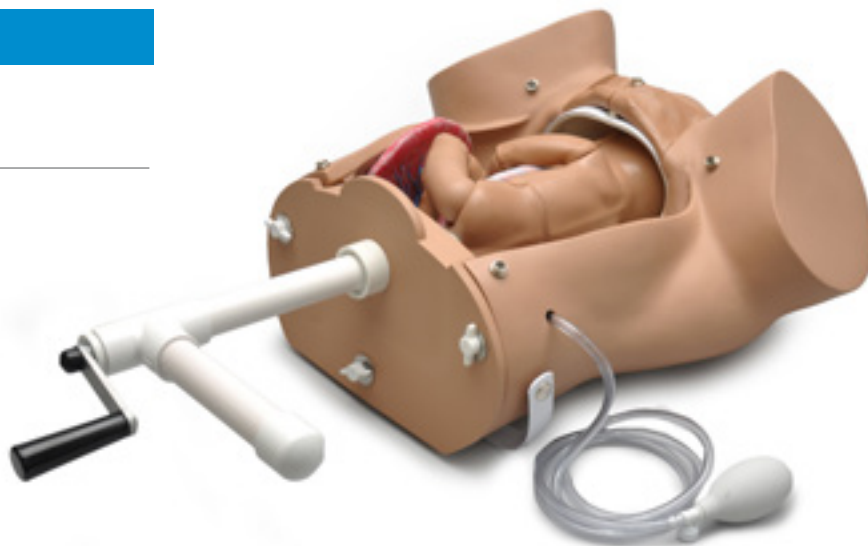
INCLUDES
- 3 dilating cervices
- 1 fetus for "version" exercises
- 1 padded stomach cover
- 3 vulval inserts
- 2 placentas
- 3 umbilical cords
- Silicone lubricant and talcum powder
- Instructions
- Carrying bag

Nuchal Cord

Articulating fetus with palpable fontanelles, spine, shoulder, elbows and knees

Birthing mechanism, dilating cervix and articulating fetus

Placenta previa

Birthing mechanism, dilating cervix and articulating fetus

OBSTETRIC SUSIE® | *S500.100*

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 need for the vacuum augmentation

Vacuum augmentation

Breech delivery

POSTPARTUM ACTIVITY

- Practice fundal massage to firm a "boggy" uterus
- Modules feature medial episiotomy with tears in the labia minora, mediolateral tears, and standard mediolateral episiotomy

Reusable episiotomy repair modules

Reusable episiotomy repair modules

OBSTETRIC BIRTHING TORSOS | *S500*

S500 ORIGINAL CHILDBIRTH SIMULATOR®

S500.PK

A SIMA Models® Original

Skin tones available at no extra charge ● ● ●

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

FEATURES

- Removable diaphragm end plate for manual positioning of fetal baby
- Removable stomach cover for positioning fetus
- Life-size pelvic cavity with major anatomic landmarks
- Hand-painted outline of the bony pelvis
- 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

Skin tones available at no extra charge ● ● ●

- 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"
- Cushions may be inflated independently of the other; inflation of the lower cushion raises the fetus to desired position; inflation of the upper cushion creates a firm abdomen as in the ninth month of pregnancy
- Module fits in S500
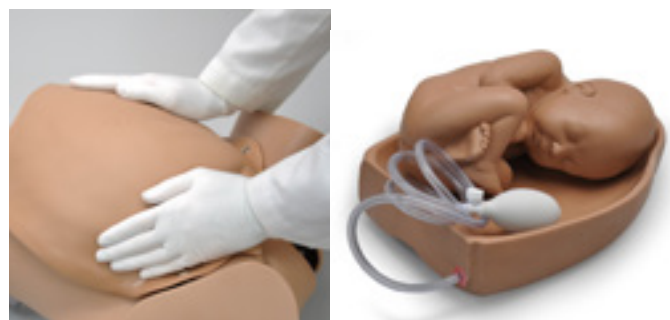
FEATURES

- Fetal baby
- Upper and lower cushions that cradle baby
- Inflation devices

OBSTETRIC BIRTHING TORSOS | *S500*

SUSIE® ARTICULATING NEWBORN FOR LEOPOLD MANEUVERS

S500.5

Skin tones available at no extra charge ● ● ●

FEATURES

- 19 part simulator including articulating head and neck, shoulders, elbows, hips, and knees
- Realistic mouth and nostrils for simulated suctioning
- Palpable fontanelles, spine, shoulders, buttocks, elbows, and knees
- Position of newborn raised or lowered by air pressure in lower "cushion"
- Ease of newborn palpation adjusted by air pressure in upper "cushion"
- Module fits in S500
- Soft carrying bag

POSTPARTUM SUTURING TRAINER

S500.6

Skin tones available at no extra charge ● ● ●

FEATURES

- 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

Individual modules may be purchased.
Please specify suture module required

FETAL BABY, UMBILICAL CORD, & PLACENTA FOR VACUUM DELIVERY

S500.1

Skin tones available at no extra charge ● ● ●

FEATURES
- Smooth, soft skull with fontanelles for realistic vacuum delivery

LABOR DELIVERY MODULE

S500.4

Skin tones available at no extra charge ● ● ●

- 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

FEATURES

- Six labor stations
- Carrying case

BIRTHING MECHANISM (three-piece)

S500.10

Skin tones available at no extra charge ● ● ●

FEATURES

- Removable end-plate for insertion of birthing mechanism
- Removable cervices automatically dilate as labor progresses
- Advance and rotation of fetus through birth canal
- Crowning of fetal head
- Manipulation of the vulva to pass the forehead, nose, and ears
- Syringe mouth and nose
- Fetal rotation to enable shoulder presentation
- Birthing fetus
- Two dilating cervices
- Soft carrying bag
- Instruction manual

POSTPARTUM HEMORRHAGE PACKAGE

S500.8

Skin tones available at no extra charge ● ● ●

The S500.8 PPH module simulates postpartum bleeding and allows providers to practice fundal massage techniques.

FEATURES
- An elevating cushion
- 2 cervixes
- A postpartum uterus with air and fluid lines, and filling syringe
- Simulated blood concentrate
- A simulated blood reservoir
- Carrying Case

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

SUPER TORY® S2220 | *Advanced Newborn Patient Simulator*

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
- Smooth and supple, full body skin
- Crying and grunting
- Programmable movement
- Blinking rate, eyes opened/closed
- Mouth: gasping and clenching
- Arm, leg, wrist flexion and extension
- Seizures: single limb, unilateral, or full body movement
- Dynamic lung compliance
- Heart and lung sounds and palpable pulses
- 10 scenarios included

NEONATAL RESUSCITATION AND STABILIZATION

REAL MECHANICAL VENTILATOR AND PATIENT MONITOR SUPPORT

INTERNAL AND EXTERNAL CRITICAL CARE TRANSPORT

SUPER TORY® S2220 | *Advanced Newborn Patient Simulator*

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

UAC/UVC infusion

Pre and postductal SpO_2

UNINTERRUPTED CRITICAL CARE TRANSPORT.

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 control at distances of up to 100 ft.
- Internal rechargeable battery provides up to 8 hrs of tetherless operation

CALL US TOLL-FREE AT 800.882.6655

SUPER TORY® S2220 | *Advanced Newborn Patient Simulator*

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. At the touch of a button, variable levels of dynamic lung compliance are capable of producing visible chest rise with as little as 15 cmH2O, as well as the high recoil associated with stiff lungs. These advanced features allow Super Tory to simulate the changes in lung function through treatment, weaning, and rehabilitation with the highest degree of physiological accuracy.

- Modes 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 (low to high)
    » Bilateral bronchi resistance
    » Respiratory effort; triggers ventilator during weaning

Sunken, bulging, and normal

Capillary refill time testing

Retractions, "see-saw" breathing

Pneumothorax, bilateral

Super Tory features bilateral and 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"

SUPPORTS REAL PATIENT MONITORING DEVICES.

Super Tory was developed for in situ training. Real patient monitoring support means participants can 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 postductal SpO2 monitoring
- Oscillometric NIBP
- Live pacing and defibrillation
- Capnography

SUPER TORY® S2220 | *Premie / Newborn / Pediatric*

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.

- **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 while reducing input from the operator.
- **Scenario Designer** – Create your own scenarios quickly and easily and share them with other UNI users.
- **eCPR™** – Monitor compression rate and depth, no-flow time, ventilation rate, and excessive ventilation; 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 "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.

SUPER TORY® S2220 | *Premie / Newborn / Pediatric*

GENERAL

- Age: Full-term newborn
- Weight: 8 lbs.
- Length: 21 in.
- Tetherless and wireless; fully responsive during transport
- Wireless control at distances of up to 100 ft.
- Internal rechargeable battery provides up to 8 hr. of tetherless operation
- Smooth and supple full-body skin with seamless trunk and limb joints
- Programmable movement: blinking, mouth open and close, 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
- OMNI® 2 ready

NEUROLOGIC

- Crying/grunting with visible 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
- Unilateral 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 cmH2O)
  » 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 EtCO2 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
» Excessive ventilation
» Smart CPR voice coach
- Chest compression depth sensor
- 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
- Blood pressure dependent pulses
- Supports blood pressure monitoring using real NIBP cuff
- Audible Korotkoff sounds
- Preductal (right hand) and postductal (right foot) SpO2 monitoring using real devices

VASCULAR ACCESS

- IV cannulation: bolus, infusion, and sampling
  » Hand
  » Scalp
  » Umbilicus
- Umbilical catheterization (UVC/UAC): infusion and sampling
- Bilateral IO tibial infusion

GASTROINTESTINAL

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

SUPER TORY®

S2220.PK

Available skin tones
Patented; other patents pending

- Super Tory®
- Neonatal Simulation Learning Experiences Guidebook
- Tablet PC preloaded with UNI®
- Automatic Mode license
- Preprogrammed scenario library
- RF module
- Battery charger
- Defibrillation adapter
- Filling kits
- Accessories
- CO2 adapter
- Carrying case
- User manual
- 1 year standard warranty
- 2, 3, 5 year warranty plans available

OPTIONS

BEDSIDE MONITOR

S2220.001.R2

MOBILE VIRTUAL MONITOR

S2220.002

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

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

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
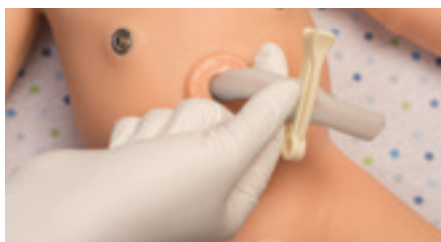
Fontanelle, brachial, umbilical pulses

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 1 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 O$_2$ Sat 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)

NEONATAL | *Real-Time Feedback*

REAL-TIME 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.

CARE AND MONITORING USING REAL DEVICES

With Tory, learners can use real devices to monitor heart rate, respiration, and EtCO2. 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.

FEATURES
- 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

OPERATION, TRACKING, & MONITORING

UNI® UNIFIED SIMULATOR CONTROL SOFTWARE
Powered by Microsoft® Surface Pro

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 let you easily simulate transitional care scenarios to improve inter and intra-disciplinary 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 intervention, and cardiopulmonary events, thereby increase 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.
- **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.

NEONATAL | *Tory S2210*

APPEARANCE AND ANATOMY

- Age: 40-week term newborn
- Weight 6 lbs / 2.7kg
- Length 20.75 in / 52.7cm
- 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 at distances of up to 300ft.
- 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, fiberoptic 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 option: 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 O2 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

DIGESTIVE

- Interchangeable female and male genitalia
- Urinary catheterization
- Selectable bowel sounds

OTHER

- Navel insert post cord detachment
- Seizures/Convulsions
- Programmable muscle tone: bilateral or unilateral arm movement, reduced, and limp
- Temperature sensor placement detection

TURNKEY PACKAGE INCLUDES

- Tory® Tetherless Patient Simulator
- Simulator Control PC preloaded with UNI® (Windows® Touchscreen Tablet PC)
- RF Communications 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 warranty plans available
- Skin tones available at no extra charge

TORY® NEWBORN SIMULATOR S2210

S2210.PK

Skin tones available at no extra charge
Patented; other patents pending

OPTIONS

BEDSIDE VIRTUAL MONITOR

S2210.001.R2

MOBILE VIRTUAL MONITOR

S2210.002

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

AUTOMATIC PHYSIOLOGIC CONTROL

S2210.600

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

NEWBORN HAL® S3010 | *Tetherless with Wireless Communication*

Newborn HAL allows you to take advanced simulation where you need to go: an accident scene, the ER, in a Labor and Delivery room, or in a NICU. "Care in motion" also provides the opportunity for you to measure how well patient "hand-offs" take place.
What is done well and what needs to be improved?

REALISTIC

Realistic size and weight, tetherless connectivity, chest rise, cyanosis, crying sounds and a variety of other features make for highly realistic scenarios

AFFORDABLE

Gaumard dedicates its talents to providing simulators at affordable prices. This principle remains as true today as it was over 50 years ago

RELIABLE

Standard one year warranty and over 50 years of experience building high-quality patient simulators

MOBILE

No external compressors, no linking boxes, no cords. The wireless Tablet PC connects to Newborn HAL from up to 300 feet

INTUITIVE SOFTWARE

Our intuitive and powerful user interface defines. Simulation Made Easy™

PROVEN TECHNOLOGY

Features like "ECG monitoring with real electrodes" and "Cyanosis" make Newborn HAL the most realistic neonatal patient simulator in the market

COMPLETE SOLUTION

From our standard one year warranty and 20 pre-installed scenarios to multiple service, training, and warranty offerings, we cover all of your simulation needs

DEBRIEFING

Evaluate interventions and insert notes on a real-time performance log

TABLET PC

Includes tablet PC with stylus control, "bump" case and scenarios

NEWBORN HAL® S3010 | *Tetherless with Wireless Communication*

Color change with conditions/interventions

Intubatable airway

Control rate and depth of respiration and observe chest rise

Umbilical catheterization and pulses

Ventilations and compressions are measured and logged

Select independent lung sounds

Bilateral IV arms with fill/drain sites

ECG monitoring with real electrodes

Temperature sensor placement detector

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

Fontanelle, umbilical and bilateral brachial pulses synchronized with ECG

TETHERLESS
Control Newborn at distances up to 300 feet 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

NEWBORN HAL® S3010 | *Tetherless with Wireless Communication*

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

ECG MONITORING 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.
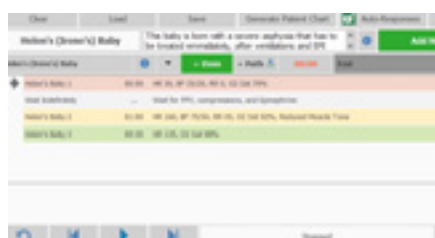
Scenarios link physiologic states
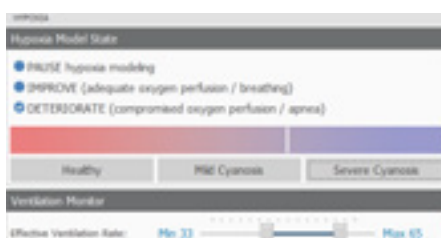
Hypoxic model responds to care provider actions

Track the actions of up to six care providers

VITAL SIGNS MONITOR

• Optional 20-inch "all-in-one" touchscreen

• Virtual monitor or 12" Touch Screen Tablet to display vital signs

• Customize each trace independently; users can set alarms and timescales.

• Display up to 12 numeric values including HR, ABP, CVP, PAWP, NIRP, CCO, SpO2, SvO2, RR, EtCO2, 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, SvO2, respiration, capnography.

• Share images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

Optional 12" Touch Screen Tablet to display vital signs

Optional 20 inch "all-in-one" touchscreen monitor to display vital signs

NEWBORN HAL® S3010 | *Tetherless with Wireless Communication*

GENERAL

- Available in light, medium, and dark skin tones
- Tetherless and fully responsive even while being transported
- Powered by an internal rechargeable battery or wall outlet
- Battery capable of 300 recharges and operate the simulator up to 4 hours
- Simulator receives commands from a wireless tablet PC and operate at distances up to 300 feet
- Option to operate automatically using Automatic mode or by the Instructor
- Training Guide with both basic and advanced interactive scenarios
- Use pre-programmed scenarios, modify them or create your own quickly and easily
- Simulation Made Easy™

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

CARDIAC

- ECGs are generated in real-time with physiologic variations never repeating textbook patterns
- Heart sounds may be auscultated and are synchronized with ECG

CIRCULATION

- 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

SPEECH

- Pre-recorded crying
- Articulation and Movement
- Seizure/convulsions
- Muscle tone active, right arm only, left arm only, reduced and limp
- Realistic rotation of the shoulder and hip joints
- Legs bend at the knees
- Supine or semi-recumbent positions

OTHER

- Cyanosis
- 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
- Remains fully functional even while in transit

USER INTERFACE

- Sensors track student actions
- Changes in condition and care provided are time stamped and logged
- View the actions of up to 6 care providers using a responsive menu or write narrative
- Generate and share diagnostic lab results
- File sharing through Vital Signs Monitor
- Links with optional recording and debriefing system integrating the event log with cameras and patient monitor
- Supplied with wireless tablet PC
- Optional automatic mode
- 20 pre-programmed scenarios which can be modified by the instructor even during the scenario
- Create your own scenarios - add/edit
- Change simulator's condition during the scenario

NEWBORN HAL® S3010

S3010.PK

Skin tones available at no extra charge
Patented; other patents pending

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

BEDSIDE VIRTUAL MONITOR

S3010.001.R2

MOBILE VIRTUAL MONITOR

S3010.002

AUTOMATIC PHYSIOLOGIC CONTROL

S3010.600

- Intuitive interface and automaticity makes simulation easy
- Vital signs are generated in real time
- Drug library with medications
- Use of medications change conditions in real time mimicking real clinical situations

PREMIE HAL® S3009

Fully Responsive Even While Being Transported

- Simulation Made Easy™
- Proven HAL® technology
- Tetherless with wireless communication
- Fully responsive even while being carried
- Modeling and trending
- Comprehensive performance feedback

PREMIE HAL® S3009 | *Tetherless with Wireless Communication*

AIRWAY

- Oral and nasal intubation
- Use an ET tube or LMA
- Multiple upper airway sounds synchronized with breathing

BREATHING

- Control rate and depth of respiration and observe chest rise
- Ventilation is measured and logged
- Select left and/or right chest wall movement and lung sound
- Chest rise and lung sounds are synchronized with   selectable breathing patterns
- Accommodates assisted ventilation, including BVM and mechanical support

CIRCULATION AND COLOR CHANGE

- Multiple heart sounds, rates, and intensities
- Chest compressions are measured and logged
- Color and vital signs respond to hypoxic events and interventions
- Bilateral brachial and femoral pulses; pulses at fontanelle and umbilicus
- Pulse strengths vary with blood pressure, and pulses are synchronized with ECG
- Temperature probe placement sensor

TETHERLESS

- Premie™ is fully responsive even when carried
- No tubes or wires to worry about

FILE SHARING

- Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

CONTROL

- Change physiological states "on the fly" using wireless control
- Use our scenarios, modify them or quickly build your own
- Sensors provide performance feedback
- Changes in condition and care are time stamped and logged
- Instructors evaluate interventions and insert notes on real-time performance logs
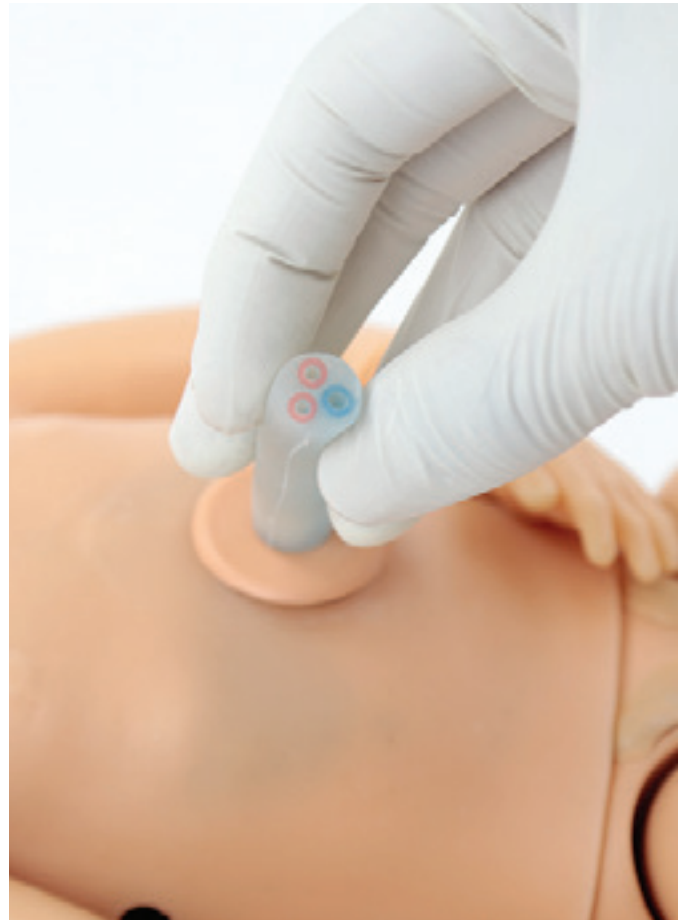
Silicone umbilicus with two arteries and one vein for UAC, UVC, and cord cutting. Pulse synchronized with ECG.

PREMIE HAL® S3009 | *Tetherless with Wireless Communication*

ECG

- View ECGs with physiologic variations generated in real-time
- Synchronized with pulses
- Conductive skin regions
- Apply real electrodes

HYPOXIC MODELING

- Color and vital signs respond to hypoxic events and interventions

SOUNDS

- Crying synchronized with breathing
- Heart sounds include a normal heart as well as atrial and ventricular septal defects
- Respiratory sounds include both normal lungs as well as stridor and grunting

VENOUS ACCESS

- Bilateral dorsum of hand
- Patent umbilicus
- Intraosseous access at right tibia
- Left foot

HAL® S3009 INCLUDES

- Internal rechargeable NiMH power
- Instructor's 12-inch tablet PC with stylus control, "bump" case and docking station for tetherless operation
- Carrying case
- 10 scenarios
- 100-240 VAC charger
- Instructions
- DVD tutorial
- One-Year Limited Warranty
- Extended warranty plans available

HAL® S3009

S3009.PK

Patented; other patents pending

Skin tones available at no extra charge ● ● ●

eCPR™ - Monitor CPR quality metrics in real-time including rate and compression depth, no-flow time, and excessive ventilation.
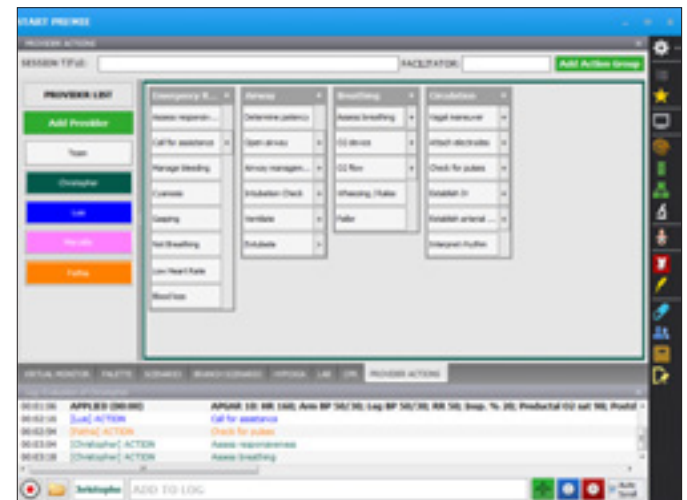
Real-time performance log tracks the action of up to six care providers. Actions are logged and time stamped for debriefing purposes.

Use our scenarios, modify them or quickly build your own.
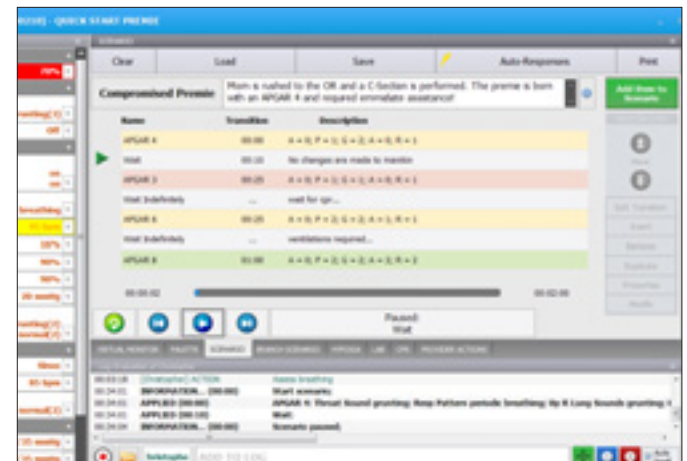
PREMIE HAL® S3009 | *Tetherless with Wireless Communication*

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

BEDSIDE VIRTUAL MONITOR

S3009.001.R2

- Controlled via wireless tablet PC
- Simulated vital signs
- Use selected configuration or create your own configuration to mimic the real monitors used in your facility
- Customize alarms
- Easy to operate and control
- Reflect simulator's condition during the scenario
- Share images such as ultrasounds, CT scans, lab results
- Touchscreen control
- Monitor can be configured by the instructor to suit the scenario
- Display up to 12 numeric parameters
- Select up to 12 dynamic waveforms

MOBILE VIRTUAL MONITOR

S3009.002

- Controlled via wireless tablet PC
- Simulated vital signs
- Use selected configuration or create your own configuration to mimic the real monitors used in your facility
- Customize alarms
- Easy to operate and control
- Reflect simulator's condition during the scenario
- Share images such as ultrasounds, CT scans, lab results
- Touchscreen control
- Monitor can be configured by the instructor to suit the scenario
- Display up to 12 numeric parameters
- Select up to 12 dynamic waveforms

AUTOMATIC MODE

S3009.600

- Intuitive interface and automaticity makes simulation easy
- Vital signs are generated in real-time
- Drug library with medications
- Use of medications change conditions in real-time mimicking real clinical situations

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 hr battery life

PEDIATRIC HAL® S2225 | *Advanced Pediatric Patient Simulator*

INTRODUCING LIFELIKE FACIAL EXPRESSIONS AND EMOTIONS—AN EVOLUTIONARY LEAP IN PATIENT-PROVIDER COMMUNICATION SIMULATION.

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

- » Anger
- » Transient pain
- » Ongoing pain
- » Amazed
- » Quizzical
- » Worried
- » Anxious
- » Crying
- » Yawning
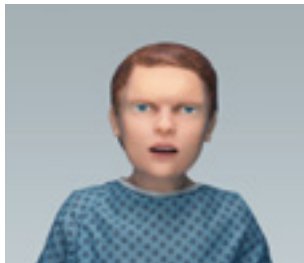
Angry, upset
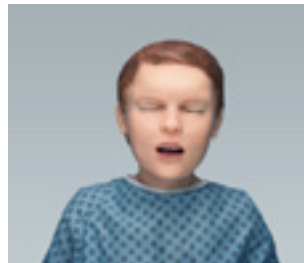
Crying
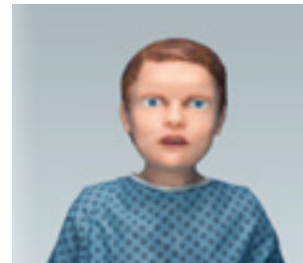
Transient pain

The powerful UNI® software lets you create your own facial expressions and emotions to expand the scope the learning experiences.

HAL automatically turns head and eyes towards the approaching subject.
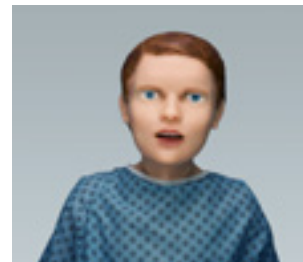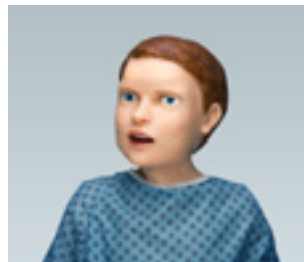
Horizontal head movement (Active robotics)

IMMERSE PARTICIPANTS IN THE MOST REALISTIC AND ENGAGING SIMULATION LEARNING EXPERIENCES™ YET.

Pediatric HAL includes 10 outcome-focused scenarios designed to replicate a variety clinical situations throughout the spectrum of pediatric care. A detailed written guide accompanies each Simulation Learning Experience for setting up, planning and facilitating the learning experience.

PEDIATRIC HAL® S2225 | *Advanced Pediatric Patient Simulator*
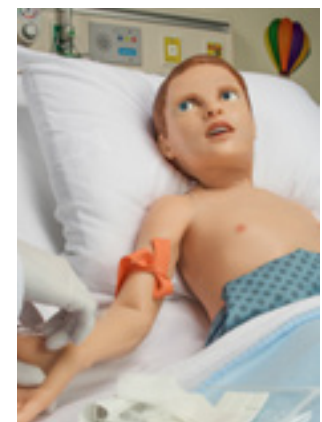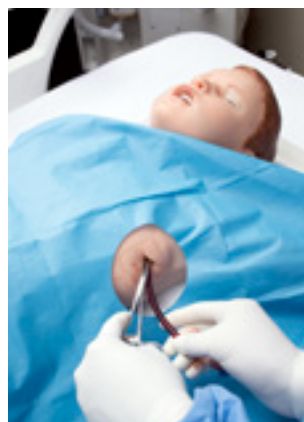
COMPREHENSIVE PEDIATRIC PATIENT ASSESSMENT EXERCISES.

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

Pupillary light reflex

Automatic object tracking
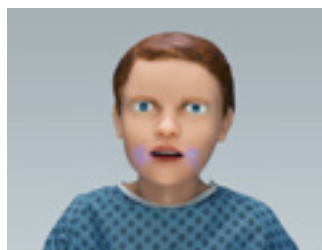
Cyanosis
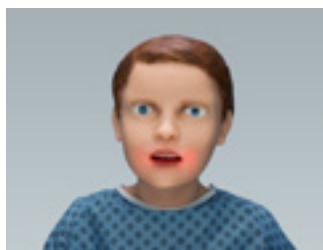
Redness
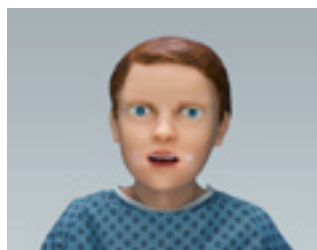
Pallor
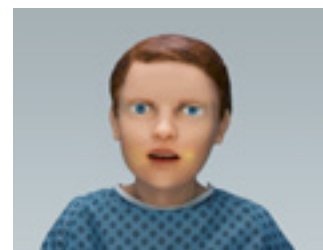
Jaundice

- 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

PEDIATRIC HAL® S2225 | *Advanced Pediatric Patient Simulator*

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 (supports ECG-derived respiration monitoring)
- Oximeters
- Capnographs
- Defibrillators
- NIBP monitors
- Glucose meters

Real glucose test readings via finger-stick

Real-time SpO$_2$ monitoring

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

PEDIATRIC HAL® S2225 | *Advanced Pediatric Patient Simulator*
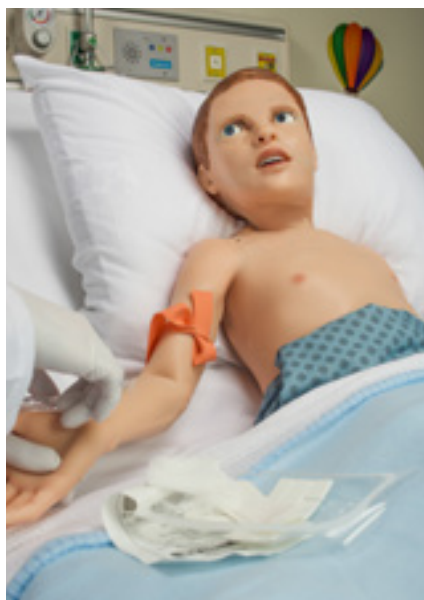
THE NEXT-GENERATION IN PEDIATRIC ADVANCED LIFE SUPPORT SIMULATION.

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

Supraglottic airways device support

Anterior/posterior defibrillation

Realistic chest recoil

PEDIATRIC HAL® S2225 | *Advanced Pediatric Patient Simulator*
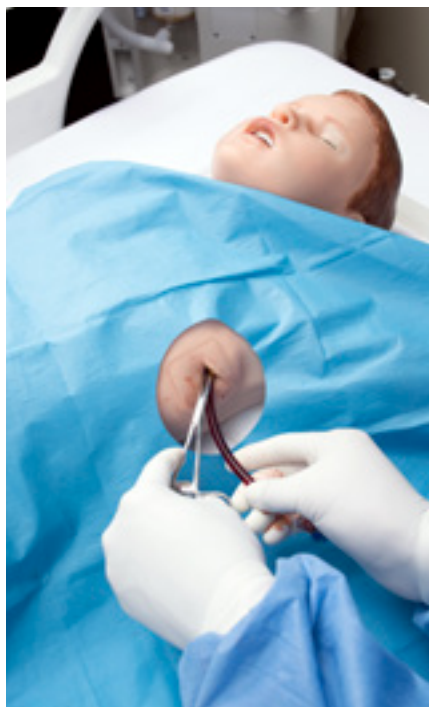
Left-midaxillary hemothorax site

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
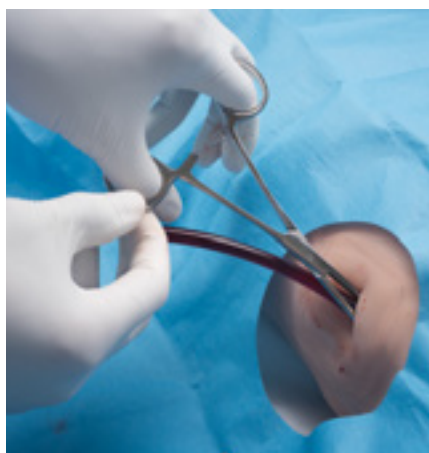
Chest tube insertion
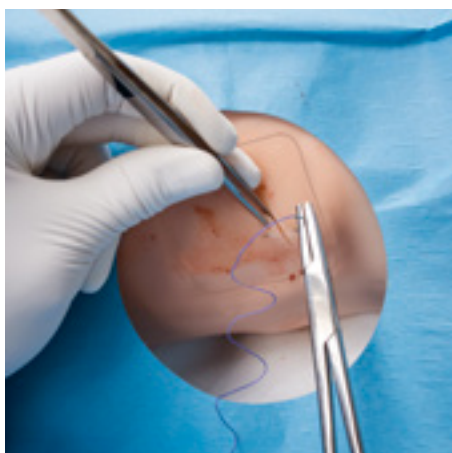
Cutting and suturing

Audible 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

PEDIATRIC HAL® S2225 | *Advanced Pediatric Patient Simulator*

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 (low to high)
    - » Bilateral bronchi resistance
    - » Respiratory effort triggers ventilator during weaning

READY TO INTEGRATE INTO YOUR PROGRAM WITH SIMULATION MADE EASY®.

Pediatric HAL is a complete learning solution and includes everything you need to get started including the powerful UNI® Tablet PC and 10 Simulation Learning Experiences.

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

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
  - A/C, 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 haemothorax 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) up to 150 Joules

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, and femoral
- 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

PEDIATRIC HAL® S2225

S2225.PK

Patented; other patents pending
Skin tones available at no extra charge ● ● ●

PACKAGE CONTENTS

- Pediatric HAL
- Tablet PC preloaded with UNI®
- 10 Pediatric SLEs
- Accessories, carrying case
- 1 year standard warranty
- 2, 3, 5 year service plans available

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

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

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

AIRWAY

- Oral and nasal intubation
- 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 geometry, larger epiglottis and better visualization of vocal cords as well as easy intubation
- Improved chest recoil during CPR
- Lung compliance refined to deliver chest rise when ventilating at 20cm H_2O

BREATHING

- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged
- Gastric distention with excess BVM ventilation
- Select independent left and right lung sounds
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- Accommodates assisted ventilation, including BVM and mechanical support
- Unilateral chest rise and multiple breath sounds

CIRCULATION AND COLOR CHANGE

- Multiple heart sounds, rates, and intensities
- Chest compressions are measured and logged
- Blood pressure can be taken using a cuff, palpation, or auscultation
- Korotkoff sounds audible between systolic and diastolic pressures
- Color and vital signs respond to hypoxic events and interventions
- Bilateral carotid, brachial and radial pulses operate continuously
- Pulse strengths vary with blood pressure, and pulses are synchronized with ECG

EASY TO USE

- Software control that is powerful and intuitive
- Use our scenarios, modify them, or quickly create your own

ACTIVE EYES

- Open and close
- Select blink rate
- Select pupillary responses to light
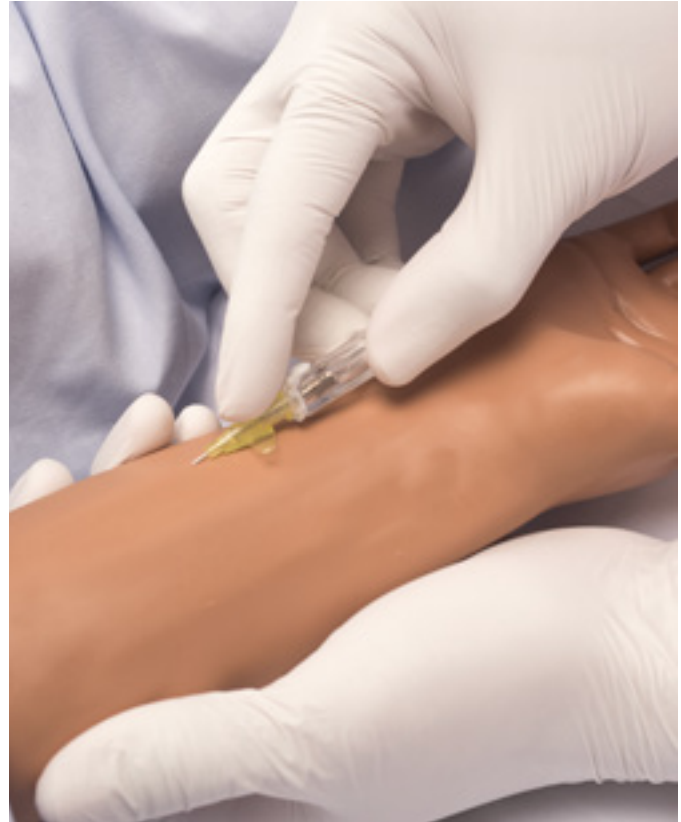
- Use our preprogrammed scenarios designed by medical professionals. Modify them or quickly create your own
- Use our library of preprogrammed physiologic states, modify them or specify pediatric HAL's condition using this Details page
- Save each condition as a physiologic state on the palette page
- Control Pediatric HAL using a wireless PC to quickly generate multiple life-threatening situations and track the actions of care providers
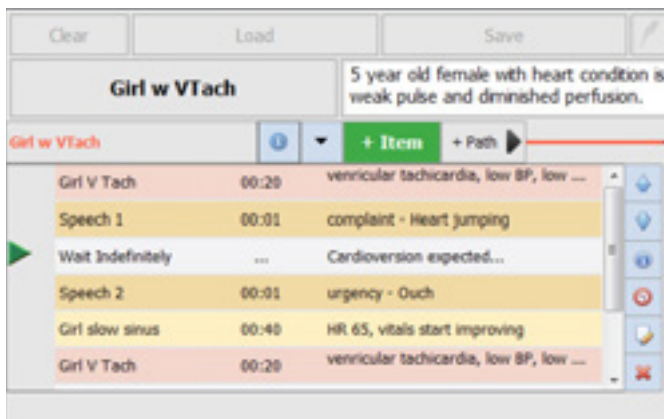
- Select Pediatric HAL's physiologic states from the palette page and combine them to build a scenario
- Select the time Pediatric HAL is in each state
- Build in delays between states or specify smooth transitions
- When activated, Pediatric HAL will progress from one state to the next
- Use stylus 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

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

FILE SHARING

- Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

LOG

- Track the actions of up to six care providers using our menu of responses or write a narrative
- Links with Pro+ recording and debriefing system integrating the log with cameras and patient monitors

DEFIBRILLATE, CARDIOVERT AND PACE

- Apply real electrodes and
- AED pads
- Use real EMS equipment
- See electrical interventions on a real AED
- View ECGs with physiologic variations generated in real-time
- Synchronized with pulses
- Conductive skin regions

MOTION

- Fully responsive even when carried
- Body convulses on command
- Eyes open / close and feature slow or rapid blinking

HYPOXIC MODELING

- Color and vital signs respond to hypoxic events and interventions

SOUNDS

- Extensive speech library
- Heart sounds include a normal heart as well as splits and murmurs
- Respiratory sounds include normal lungs as well as stridor, bronchial, wheezing, pleural friction and crackles
- Bowel sounds

VENOUS ACCESS

- IV training arms
- IM sites on shoulders and thighs
- Intraosseous access at tibia

SIMULATOR

- Physical size is 5 years of age
- Self-contained respiratory and circulatory functions
- Active eyes
- NG and otic exercises
- Tracheotomy opening
- Interchangeable genitalia
- Two-way wireless communication
- Internal rechargeable power

CONTROL

- Wireless tablet PC with stylus control
- Communication modules are FCC and CE compliant
- Both physiologic modeling and trending
- Comprehensive performance feedback
- Pre-programmed scenarios
- Build your favorite scenarios

ACCESSORIES

- 100-240 VAC charger
- Blood pressure cuff
- Instructions
- CDROM tutorial
- Carrying case

OTHER

- One-Year Limited Warranty
- Extended warranty plans available

HAL® S3005

S3005.PK
Patented; other patents pending

Skin tones available at no extra charge ● ● ●

OPTIONS

BEDSIDE VIRTUAL MONITOR

S3005.001.R2

MOBILE VIRTUAL MONITOR

S3005.002

WIRELESS STREAMING AUDIO

S3005.300

AUTOMATIC CONTROL

S3005.600

- Responds to caregiver, instructor and pharmacologic intervention
- Pause and resume anytime
- Add meds using drug template

CO2 EXHALATION

S3005.078

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

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

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

HAL® S3004 | *One-Year-Old Pediatric Simulator*

Pediatric HAL® allows you to take advanced simulation where you need to train. It may be at an accident scene, in an ER, an EMS vehicle, or even in a PICU. HAL® remains fully functional while being moved from place to place. This "Care in motion" allows you to evaluate both team training and how well patient "handoffs" are conducted. Evaluate what is done well and what needs to be improved

REALISTIC

Realistic size and weight, tetherless connectivity, airway, chest rise, cyanosis, pre-recorded sounds and a variety of other features make for highly realistic scenarios.

AFFORDABLE

Gaumard® dedicates its talents to providing simulators at affordable prices. This principle remains as true today as it was over 60 years ago.

RELIABLE

Standard one year warranty and over 60 years of experience building high-quality patient simulators.

MOBILE

No external compressors, no linking boxes, no cords. The wireless Tablet PC connects to Newborn HAL from up to 300 feet

INTUITIVE SOFTWARE

Our intuitive and powerful user interface defines Simulation Made Easy™.

PROVEN TECHNOLOGY

Gaumard® pioneered wireless and tetherless simulators back in 2004. Pediatric HAL® is part of our growing family of these remarkable products.

COMPLETE SOLUTION

From our standard one year warranty and 20 pre-installed scenarios to multiple service, training, and warranty offerings, we cover all of your simulation needs.

DEBRIEFING

Evaluate interventions and insert notes on a real-time performance log. Use an integrated camera system for comprehensive debriefing.

TABLET PC
Includes a 12in touchscreen tablet PC with stylus control, "bump" case and scenarios.

Color Change
with Conditions/
Interventions

ECG Monitoring
with Real
Electrodes

Control Rate
and Depth of
Respiration and
Observe Automatic
Chest Rise

Urinary
Catheterization

Ventilations and
Compressions are
Measured and Logged

Defibrillate,
Cardiovert and
Pace Using Real
Devices

Bilateral IV
Arms with
Fill/Drain
Sites

Bowel
Sounds

Intubatable and
Programmable
Airway

Active Eyes

Select
Independent
Lung Sounds

Perform
Tracheostomy

Normal and
Abnormal Breath
Sounds

Bilateral Carotid, Brachial, Radial, and Femoral
Pulses Synchronized with ECG

TETHERLESS

Control HAL® at distances up to 300 feet
while he smoothly transitions between
physiologic states in response to
commands from a wireless tablet PC.
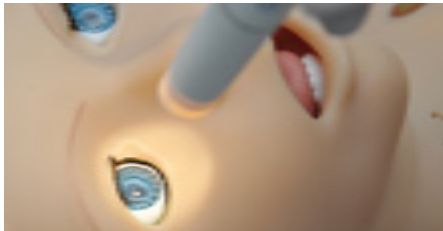
ACTIVE EYES

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 regions
allow the use of real equipment to obtain
his ECG, perform temporary pacing,
cardiovert, and defibrillate.

HAL® S3004 | *One-Year-Old Pediatric Simulator*

AIRWAY AND BREATHING

Improved airway allows better visualization of vocal cords and easy intubation. Lung compliance refined to deliver chest rise when ventilating at 20cm H_2O.

INTRAOSSEOUS ACCESS

Intraosseous infusion and injection system with realistic tibia bones.

CYANOSIS

Color and vital signs respond to hypoxic events and interventions.

HAL® S3004 | *One-Year-Old Pediatric Simulator*

UNI® 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
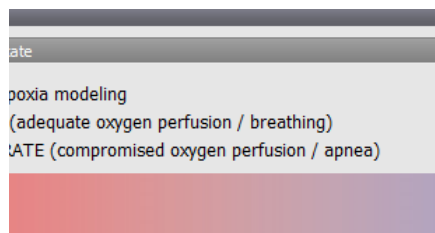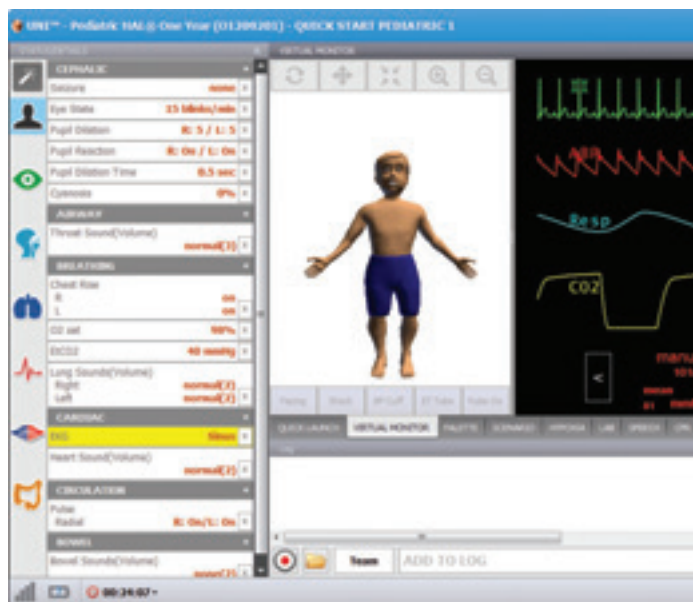
Hypoxic model responds to care provider actions
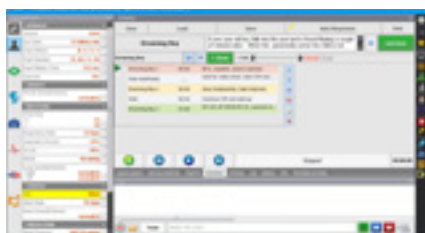
Scenarios link physiologic states

Track the actions of up to six care providers

VITAL SIGNS MONITOR

- Optional 20-inch "all-in-one" touchscreen
- •Virtual monitor or 12" Touch Screen Tablet to display vital signs
- •Customize each trace independently; users can set alarms and timescales.
- •Display up to 12 numeric values including HR, ABP, CVP, PAWP, NIRP, 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

CALL US TOLL-FREE AT 800.882.6655

HAL® S3004 | *One-Year-Old Pediatric Simulator*

FILE SHARING

- Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progress

LOG

- Track the actions of up to six care providers using our menu of responses or write a narrative
- The Pro+ recording and debriefing system allows you to integrate the log with cameras and patient monitors

DEFIBRILLATE, CARDIOVERT AND PACE

- Apply real electrodes and
- AED pads
- Use real EMS equipment
- See electrical interventions on an AED or ECG monitor
- View ECGs with physiologic variations generated in real-time
- Synchronized with pulses
- Conductive skin regions
- Apply real electrodes

MOTION

- Fully responsive even when carried
- Body convulses on command
- Eyes open / close and feature slow or rapid blinking

HYPOXIC MODELING

- Color and vital signs respond to hypoxic events and interventions

SOUNDS

- Extensive speech library
- Heart sounds include a normal heart as well as splits and murmurs
- Respiratory sounds include normal lungs as well as stridor, bronchial, wheezing, pleural friction and crackles
- Bowel sounds

VENOUS ACCESS

- IV training arms
- IM sites on shoulders and thighs
- Intraosseous access at tibia

SIMULATOR

- Physical size is 1 years of age
- Self-contained respiratory and circulatory functions
- Active eyes
- NG and otic exercises
- Tracheotomy opening
- Interchangeable genitalia
- Enema administration
- Two-way wireless communication
- Internal rechargeable power

CONTROL

- Wireless tablet PC with stylus control
- Communication modules are FCC and CE compliant
- Both physiologic modeling and trending
- Comprehensive performance feedback
- Preprogrammed scenarios
- Build your favorite scenarios

ACCESSORIES

- 100-240 VAC charger
- Blood pressure cuff
- Instructions
- CDROM tutorial
- Carrying case

OTHER

- One-Year Limited Warranty
- Extended warranty plans available

HAL® S3004

S3004.PK

Patented; other patents pending

Skin tones available at no extra charge ● ● ●

OPTIONS

BEDSIDE VIRTUAL MONITOR

S3004.001.R2

MOBILE VIRTUAL MONITOR

S3004.002

WIRELESS STREAMING AUDIO

S3004.300

AUTOMATIC CONTROL

S3004.600

- Responds to caregiver, instructor and pharmacologic intervention
- Pause and resume anytime
- Add meds using drug template

CO2 EXHALATION

S3004.078

- Real and measurable $EtCO_2$
- 10 programmable levels of CO_2 output
- Portable design allows continuous monitoring during transport.

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

HAL® S3201

Advanced Multipurpose Patient Simulator

- Dynamic 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 trainer
- Wireless and tetherless mobility for care in motion training

HAL® S3201 | *Advanced Multipurpose Patient Simulator*

HAL features the most advanced capabilities in patient simulation in one affordable package.

MULTIPURPOSE

HAL offers an array of physical and physiological features capable of simulating lifelike cases in nearly all clinical settings, including prehospital, ED, OR, ICU, PACU, and general nursing. HAL's versatility makes it the most advanced and cost-effective patient simulation solution today.

REAL MONITORING

Monitor and provide care using real equipment. HAL supports real 12-Lead ECG monitors, capnometers, oximeters, BP cuffs, defibrillators, and mechanical ventilators just like a real patient. No adapters, adjuncts, or special configuration required.

TETHERLESS

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 for up to 6 hours.

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.

EASY TO USE

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

TURN-KEY SOLUTION

HAL is fully equipped and ready for use. HAL includes a wireless control tablet, UNI®, a virtual patient monitor, 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 50 years ago.

HAL® S3201 | *Advanced Multipurpose Patient Simulator*

HAL is a multipurpose and easy to use patient simulator for all your clinical training needs.

REACTIVE EYES, SEIZURES

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

SURGICAL AIRWAY

Visible tongue edema, pharyngeal swelling, and laryngospasm; perform an emergency cricothyrotomy or tracheotomy.
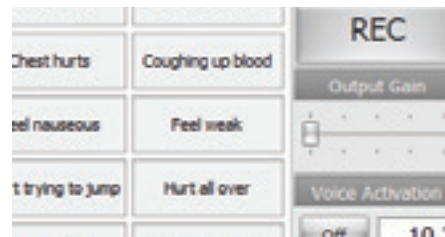
WIRELESS STREAMING VOICE

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

eCPR™ AND REAL ETCO2

Built-in ventilation and chest compression sensors capture CPR quality metrics. Measure EtCO2 using a real capnometer to monitor effectiveness.

DEFIBRILLATION

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.

Central Cyanosis

Measure OSAT and Blood Pressure Using Real Oximeter and Cuff

Automatic Chest Rise

Oral and Nasal Intubation

Reactive Eyes

12 Lead ECG

Dynamic Airway and Lung Compliance

Realistic Surgical Trachea

Defibrillate, Cardiovert, and Pace Using Real Devices

CALL US TOLL-FREE AT 800.882.6655
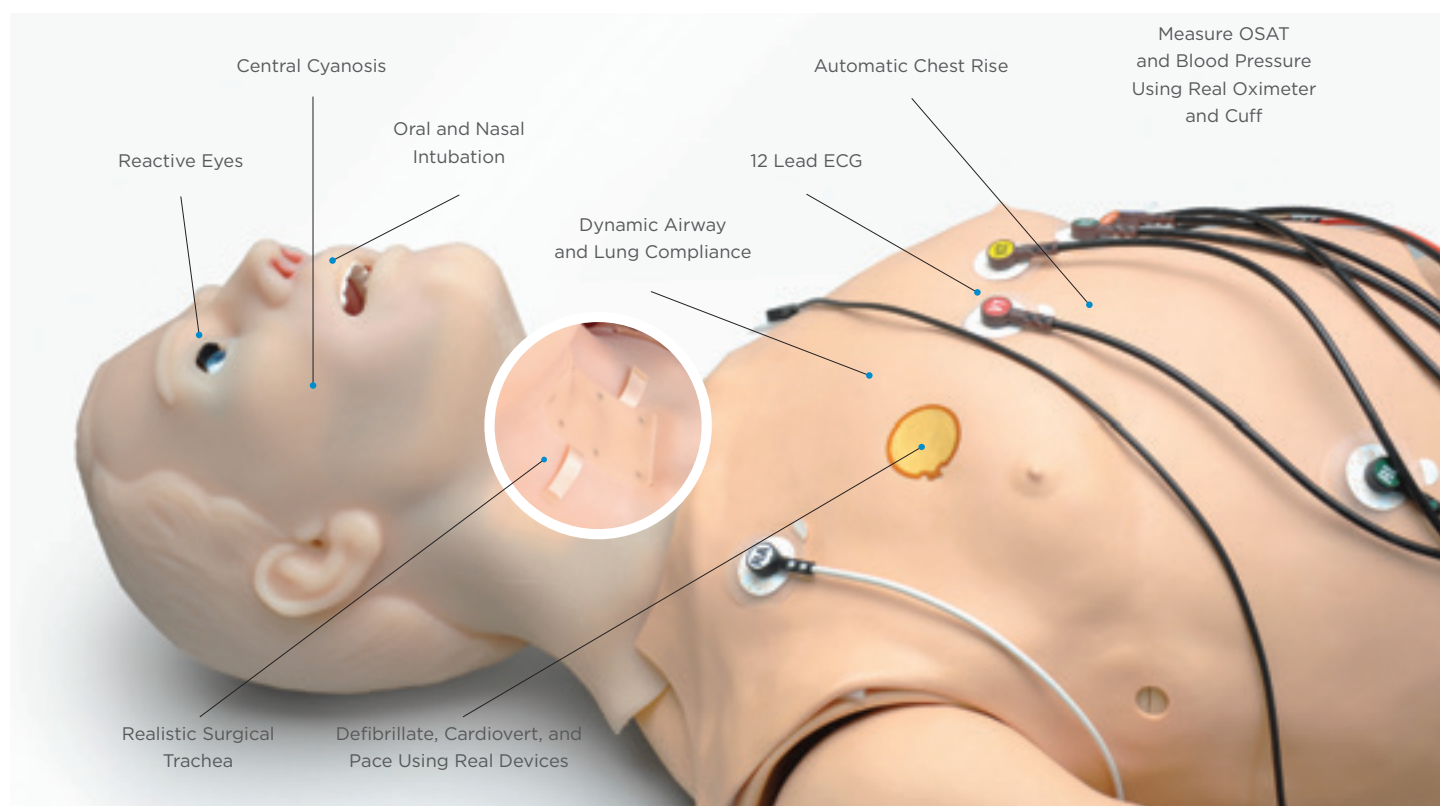
HAL® S3201 | *Advanced Multipurpose Patient Simulator*

Train general and specialized practitioners with one patient simulator that does it all.

- Active eyes
- Cyanosis
- Nasal/oral intubation
- Intubation sensor
- Tongue edema
- Pharyngeal swelling
- Laryngospasm
- Surgical airway
- Real EtCO2
- Spontaneous breathing
- Variable airway resistance
- Variable lung compliance
- Gasping
- Heart sounds

- Carotid pulses
- Brachial/axillary pulses
- Radial pulses
- Femoral pulses
- Popliteal pulse
- Pedal pulse
- Bowel sounds
- Seizures
- Streaming voice
- Airway sounds
- Mainstem intubation
- Needle decompression
- Bilateral chest tube
- Ventilation sensor

- Lung sounds
- Chest compression sensor
- (Manual/auto) blood pressure
- 12-Lead monitoring
- Oxygen saturation
- Defibrillation/pacing
- Bilateral IV/IM access
- Drug recognition
- Stomach distension
- Intramuscular access
- Urinary catheterization
- Optional trauma arm/leg
- 6 Hour battery life
- Wireless and tetherless
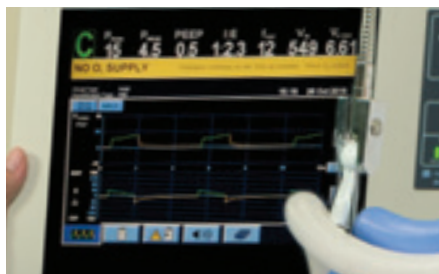
DYNAMIC AIRWAY AND LUNG COMPLIANCE

Train learners on vent management and patient treatment using a real mechanical ventilator. HAL's respiratory controls let you adjust lung compliance, airway resistance, gasping, real EtCO2, and OSAT to simulate an infinite number of respiratory conditions. HAL can also hold P.E.E.P. from 5 to 20 cm H2O and trigger the vent's assist mode during weaning.

12 LEAD ECG DESIGN WITH MI MODEL

Train ECG interpretation and MI management using a real 12-lead monitor. 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.

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 operating license or software update fees** – Keeps your program's operating costs down year after year.

Powered by Microsoft® Surface Pro

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.
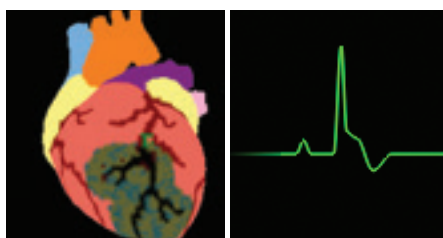
3D MYOCARDIAL INFARCTION

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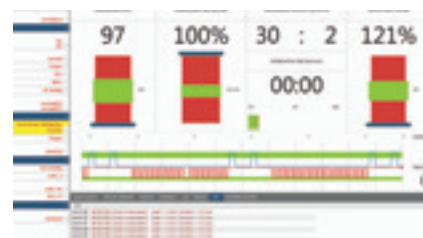
eCPR™ MONITORING

Monitor and assess CPR performance in real-time, simulate perfusion dependent on effectiveness, and export performance reports for debriefing.
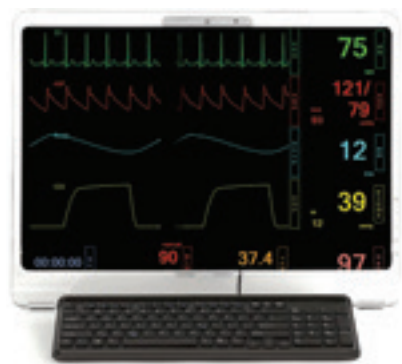
VITAL SIGNS MONITOR

- Includes 20-inch touchscreen virtual monitor or upgrade to a 12-inch tablet virtual monitor

- Customize each trace independently; users can set alarms and timescales.

- 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

HAL® S3201 | *Advanced Multipurpose Patient Simulator*

GENERAL

- Light, medium, and dark skin tone available
- Powered by an internal rechargeable battery or wall outlet
- Simulator receives commands from a wireless tablet PC and operates at distances up to 300 meters
- Use pre-programmed scenarios, modify them or create your own quickly and easily

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 using replaceable cartridge mounted inside the simulator
- Attach to real mechanical ventilators
- Bilateral chest rise and fall
- Unilateral chest rise simulates pneumothoraces
- 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
  > Vary lung mechanics throughout scenario
  > Receive real-time feedback from 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, are continuous and synchronized with the ECG even during a paced rhythm

INSTRUCTOR OR AUTOMATIC MODE

- Vital signs are generated in real time
- Drug library with medications
- Use of medications change conditions in real-time mimicking real clinical situations

DRUG RECOGNITION SYSTEM

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

NEURAL RESPONSES

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

SPEECH

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

VITAL SIGNS MONITOR

- Controlled via wireless tablet PC
- Use selected configuration or create your own configuration to mimic the real monitors used in your facility
- Share images such as ultrasounds, CT scans, lab results
- Touchscreen control
- Monitor can be configured by the instructor to suit the scenario

OTHER

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

USER INTERFACE

- Sensors track student actions
- Changes in condition and care provided are time stamped and logged
- Supplied with wireless tablet PC
- 26 pre-programmed scenarios which can be modified by the instructor even during the scenario
- Create your own scenarios (add/edit)
- Change the simulator's condition during the scenario

HAL® S3201

S3201.PK

Patented; other patents pending

Skin tones available at no extra charge ● ● ●

OPTIONAL ADD-ONS

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

TRAUMATIC LEG AMPUTATION
S3201.004

TRAUMATIC ARM AMPUTATION
S3201.005

CASUALTY WOUND KIT
WK120

EMERGENCY WOUND KIT
WK100

TRAUMA WOUND KIT
WK110

BURN WOUND KIT
WK105

DEFIB-PACING SNAP UPGRADE
S3201.125

MODIFIED DEFIB CABLES
S3201.126 Philips
S3201.127 Physio LIFEPAK®
S3201.128 Zoll®

HAL® S3101

Proven Wireless and Tetherless
Patient Simulator

- Automatic Physiologic Control
- 52 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

CALL US TOLL-FREE AT 800.882.6655

HAL® S3101 | *A Proven Tetherless Patient Simulator*

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. and tracheostomy and needle cricothyrotomy

Monitor CPR quality, EtCO2, defibrillation, and medication management to improve ACLS performance

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.

Bilateral 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, male/female catheterization, IV administration, tracheostomy care, and more.

ACLS TRAINING

Train difficult airway management, improve CPR quality, EtCO2 monitoring, practice defibrillation, and manage post-cardiac care.

TURN-KEY 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 50 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.

HAL® S3101 | *UNI® Unified Simulator Control Software*

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. Control HAL from up to 300 meters away

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 overdosages, and drug interactions

PRECONFIGURED AND READY

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

POWERFUL EASY-TO-USE CONTROLS

Control HAL using preprogrammed scenarios, on-the-fly controls, or the physiologic model. Scenario Library Included. Select from the library of pre-programmed scenarios included or modify them to create your own.

AUTOMATIC PHYSIOLOGIC CONTROL

The integrated automatic operating mode simulates lifelike responses to the care provided, medications, trauma, and much more.

52 DRUG LIBRARY & PHARMACOLOGY EDITOR

Train the management of 52 commonly used medications. Easily modify the effect of each medication or add new ones using the built-in pharmacology editor.

eCPR™ MONITORING

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

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 OPERATING LICENSE OR SOFTWARE UPDATE FEE

Keep your program's operating costs down year after year.

CALL US TOLL-FREE AT 800.882.6655

HAL® S3101 | *A Proven Tetherless Patient Simulator*

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
- 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

CARDIAC/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 4 quadrants
- Male/Female in catheterization

HAL® S3101

S3101.PK

Patented; other patents pending

Skin tones available at no extra charge ●●●

- Tetherless Adult Patient Simulator
- Wireless tablet PC; UNI license
- Automatic Mode License
- Preprogrammed scenarios library
- Accessories
- Patented; other patents pending
- One-Year Limited Warranty
- Extended warranty plans available

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

REAL CO2 EXHALATION

S3101.078

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 DRUG RECOGNITION ARM

S3101.400R

- Virtual drug recognition sensors integrated into the arm vasculature detect the medication type, concentration, and dose administered.
- 20 Virtual drug syringes

BEDSIDE VIRTUAL MONITOR

S3101.001.R2

- Interactive virtual patient monitor displays vital signs in real-time
- Display up to 18 numeric values
- Display up to 20 dynamic waveforms
- Customizable layout mimics real patient monitors
- Customizable threshold alarms
- Display simulated ultrasounds, CT scans, lab results, x-rays

MOBILE VIRTUAL MONITOR

S3101.002

- Mobile patient monitor displays vital signs in real-time
- Display up to 18 numeric values
- Display up to 20 dynamic waveforms
- Customizable layout mimics real patient monitors
- Customizable threshold alarms
- Display simulated ultrasounds, CT scans, lab results, x-rays

TRAUMATIC LEG/ARM AMPUTATION

S3101.004
S3101.005

CASUALTY, EMERGENCY, TRAUMA, BURN WOUND KITS

WK120
WK100
WK110
WK105

DEFIB-PACING SNAPS

S3101.125

MODIFIED PHILIPS DEFRIBRILLATION PATCHES

S3101.126

PHYSIO LIFEPAK® DEFIBRILLATION PATCHES

S3101.127

MODIFIED ZOLL® DEFIBRILLATION PATCHES

S3101.128

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® S3000 | *A Proven Tetherless Simulator*

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™ Train using real-time CPR quality metrics and smart coaching. Real EtCO2 capability

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

Bilateral IV training arms; adjust HAL's response to boluses and/or IV infusion

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. Control him at distances up to 300 meters

NEUROLOGIC

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

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 EtCO2

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 4 quadrants
- Male/Female in catheterization

HAL® S3000 | *A Proven Tetherless Simulator*

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

Attach AED pads directly to HAL's conductive skin. Your AED will display HAL's ECG, analyze his cardiac rhythm, and advise action

Program HAL's response to defibrillation. Stack shocks as needed. Here an AED is shown converting HAL's ventricular fibrillation into normal sinus rhythm

Use monophasic or biphasic defibrillators on HAL's skin. Shock HAL® using your defibrillator just like a real patient

HAL® even distinguishes between defibrillation and synchronized cardioversion. Here a shock resolves pulseless ventricular tachycardia

HAL® S3000 | *A Proven Tetherless Simulator*

UNI™ FEATURES

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.

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

POWERFUL EASY-TO-USE CONTROLS
Control HAL using preprogrammed scenarios, on-the-fly controls, or optional physiologic model

SCENARIO LIBRARY INCLUDED
Quickly and easily create your own scenarios and share them.

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.

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

HAL® S3000

S3000.PK

Skin tones available at no extra charge ● ● ●

- Tetherless Adult Patient Simulator
- Wireless tablet PC; UNI license
- Preprogrammed scenarios
- Battery charger, BP cuff, surgical trachea kit, pneumo. decompression sites, user guides
- One-Year Limited Warranty
- Extended warranty plans available

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

WIRELESS STREAMING AUDIO

S3000.300

CO2 EXHALATION

S3000.078

- Real and measurable $EtCO_2$ with 10 programmable levels of CO_2 output.
- Internal CO_2 system allows tetherless operation.

12-LEAD ECG

S3000.120

- 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 PHYSIOLOGIC CONTROL

S3000.600

- Automatic responses to care provided, medications, blood loss and more.
- 50+ preprogrammed drug library

BEDSIDE VIRTUAL MONITOR

S3000.001.R2

MOBILE VIRTUAL MONITOR

S3000.002

TRAUMATIC LEG/ARM AMPUTATION

S3000.004
S3000.005

CASUALTY, EMERGENCY, TRAUMA, BURN WOUND KITS

WK120
WK100
WK110
WK105

INTRAOSSEOUS LEG

S3000.028R
8 tibia, 75ml reservoir, Skin cover

Skin tones available at no extra charge ● ● ●

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

HAL® S1000 | *Emergency Patient Simulator*

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 and wireless and fully operational on battery for up to 6 hours.

HAL® S1000 | *ALS Simulation Made Easy™*

MEASURE COMPRESSIONS AND VENTILATIONS

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

BILATERAL IV ARMS

Bilateral IV training arms that can be used for bolus or intravenous infusions as well as for draining fluids.

VIEW DYNAMIC ECG

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

MULTIPLE HEART SOUNDS

Simulator equipped with multiple realistic heart rates and cardiac rhythm 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:

CALL US TOLL-FREE AT 800.882.6655

HAL® S1000 | *ALS Simulation Made Easy™*

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
- Stack shocks as needed
- HAL® even distinguishes between defibrillation and synchronized cardioversion
- HAL® can be paced anteriorly at the defibrillation sites
- View dynamic ECG, in your real ECG monitor
- Track the actions of up to six care providers using our response menu or write a narrative
- 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
- FCC, IC, CE

HAL® S1000

S1000.M2.PK

Skin tones available at no extra charge ● ● ●

- Tetherless Adult Patient Simulator
- Laptop PC; UNI license
- Preprogrammed scenarios
- Battery charger, BP cuff, surgical trachea kit, pneumo. decompression sites, user guides
- One-Year Limited Warranty
- Extended warranty plans available

TABLET PC UPGRADE

S1000.215

- Upgrade the control PC to a lightweight wireless tablet
- Pen and touch-enabled UNI®
- Store your learning materials, presentations, and evaluations
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals
- Option only available at the time of order

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

CO2 EXHALATION

S1000.078

- Enables real and measurable CO_2 exhalation with every breath.
- 10 programmable levels of CO_2 output
- Up to 90 minutes of CO_2 exhalation per single CO_2 cartridge
- Option only available at the time of order

URINARY CATHETERIZATION

S1000.070.1

- Interchangeable female and male genitalia with internal urine bladder Foley catheterization exercises
- Option only available at the time of order

BEDSIDE VIRTUAL MONITOR

S1000.001.R2

MOBILE VIRTUAL MONITOR

S1000.002

WIRED VIRTUAL MONITOR SCREEN

S1000.001

PATIENT SIMULATOR OPTIONS AND ACCESSORIES

BEDSIDE VIRTUAL MONITOR

- Customize alarms
- Share images such as ultrasounds, CT scans, lab results
- Touchscreen control
- Monitor can be configured by the instructor to suit the scenario
- Display up to 12 numeric parameters
- Select up to 12 dynamic waveforms

S2220.001.R2

S2210.001.R2

S2225.001.R2

S3101.001.R2

S3000.001.R2

S2000.001.R2

S3005.001.R2

S3004.001.R2

S3010.001.R2

S3009.001.R2

S3040.100.001.R2

MOBILE VIRTUAL MONITOR

- Customize alarms
- Reflect simulator's condition during the scenario
- Share images such as ultrasounds, CT scans, lab results
- Touchscreen control
- Monitor can be configured by the instructor to suit the scenario
- Display up to 12 numeric parameters
- Select up to 12 dynamic waveforms

S2210.002

S2220.002

S2225.002

S3201.002

S3101.002

S3000.002

S575.100.002

S2000.002

S3005.002

S3004.002

S3010.002

S3009.002

S3040.100.002

12 LEAD ECG

- Use your real 12 lead ECG monitor
- Display/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
- Print 12 lead strips from your patient monitor; 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 integrated MI module to specify occlusions, ischemia, injury, necrosis

S3101.120

S3000.120

S3040.100.120

S1000.120

VIRTUAL MONITOR SOFTWARE LICENSE

- The Virtual Monitor Activation Code allows you to display your Gaumard simulator vital signs on an existing Gaumard Virtual Monitor PC.
- (1) Software License per simulator serial number required

S3101.201

S3000.201

S3005.201

S3004.201

S3010.201

S3009.201

S3040.100.201

S2210.201

S2220.201

S2225.201

S2000.201

S1001.201

S901.201

PATIENT SIMULATOR OPTIONS AND ACCESSORIES

HAL® TRAUMATIC LEG AMPUTATION

- Pulsatile bleeding from three major arteries
- Blood-flow consistent with software controlled heart rate and blood pressure
- 500ml blood capacity, completely self contained within the module
- Tourniquet impedes blood-flow when tightened

S3201.004

S3101.004

S3000.004

Skin tones available at no extra charge ● ● ●

WIRELESS STREAMING AUDIO

- Bidirectional digital voice and data communication
- Voice range to 150 feet
- Be the voice of the simulator
- Hear caregiver responses
- Create and store vocal responses in any language
- Select from a pre-recorded vocal menu

S3000.300 HAL®

S3005.300 5 y/o HAL®

S3004.300 1 y/o HAL®

HAL® S3201, S3101, and SUSIE® S2000 come standard with Wireless Streaming Audio

HAL® TRAUMATIC ARM AMPUTATION

- Pulsatile bleeding from three major arteries
- Blood-flow consistent with software-controlled heart rate and blood pressure
- 100ml blood capacity, completely self contained within the module
- Tourniquet impedes blood-flow when tightened

S3201.005

S3101.005

S3000.005

REAL CO$_2$ EXHALATION OPTION

- The CO$_2$ exhalation option adds real measurable EtCO$_2$ to your patient simulator. This feature allows learners to train using real capnography devices to improve assessment and management skills.
- The CO$_2$ exhalation feature gives you programmable control of real CO$_2$ gas on exhalation, detectable using your native sensors and monitors. EtCO$_2$ can be easily added to current or new scenarios to expand the scope and fidelity of your clinical cases. What's more, the CO$_2$ hardware system is mobile and seamless, allowing simulation of patient handoffs and offering higher realism.

Real CO$_2$ exhalation option is available for the following patient simulators:

VICTORIA S2200
S2200.078

TRAUMA HAL S3040.100
S3040.100.078

HAL S3201

HAL S3101
S3101.078

HAL S3000
S3000.078

HAL S1000
S1000.078

HAL S3005
S3005.078

HAL S3004
S3004.078

NEWBORN TORY S2210
S2210.78

AUTOMATIC DRUG RECOGNITION SYSTEM

- Identifies drug type and volume injected into veins of the right hand and forearm
- Supplied with 20 cc syringes having wireless tags
- Use drugs we have selected or choose to model thousands of drugs using our software
- Links with HAL®, NOELLE®, SUSIE® and HAL® 5 year simulators having our physiologic models
- Physiologic models update our simulated vital signs monitors
- Additional packs of 20 syringes with tags available
- Supplied with 10 replaceable antecubital veins

S3101.400R HAL®

S3000.400R HAL®

S575.100.400R NOELLE®

S2000.400R SUSIE®

CASUALTY WOUND KIT

WK120

EMERGENCY WOUND KIT

WK100

TRAUMA WOUND KIT

WK110

BURN WOUND KIT

WK105

The S3101 option includes physiologic model; other simulator options shown add the physiologic model to the Automatic Drug Recognition System. HAL® S3201 comes standard with both drug recognition and physiologic model

CALL US TOLL FREE AT 800.882.6655

CODE BLUE® III FAMILY | *ALS and Emergency Care 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 with OMNI® 2

S300.100.250.PK

OMNI 2 Wireless Interface Included

Skin tones available at no extra charge   ● ● ●

CODE BLUE® III FIVE YEAR with OMNI® 2

S300.105.250.PK

OMNI 2 Wireless Interface Included

Skin tones available at no extra charge   ● ● ●

CODE BLUE® III NEWBORN with OMNI® 2

S300.110.250.PK

OMNI 2 Wireless Interface Included

Skin tones available at no extra charge   ● ● ●

Introducing The New Wireless Code Blue® III Adult with OMNI® 2

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.

Spontaneous breathing and palpable pulses

Oral and nasal intubation

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

CODE BLUE® III FAMILY | *ALS and Emergency Care Simulators*

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 interface layout allows can simulate the look and feel of a variety of standard patient monitors
- Programmable high/low alarms
- Built-in virtual defibrillator
- Touch-screen enabled controls
- Links wirelessly to the patient simulator's control interface

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

Code Blue III Adult Features

- Wireless and tetherless design; fully operational in transit
- Wireless OMNI 2 simulator control interface included
- 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

S300.100.250.PK

Patented; other patents pending

Skin tones available at no extra charge

UNI® TABLET PC UPGRADE

S300.100.215

Upgrade the simulator's control interface from OMNI 2 to the powerful UNI® Simulator Control Software.

- Microsoft Surface Pro preloaded with UNI®
- UNI® Simulator Control Software License
- RF communications module
- Upgrade only available at the time of order

Accessories

BEDSIDE VIRTUAL PATIENT MONITOR

S300.100.R2

- Touch-Screen All-in-one PC Gaumard Vitals™ virtual patient monitor
- Includes 1 Gaumard Vitals™ activation code for a Gaumard patient simulator

MOBILE VIRTUAL PATIENT MONITOR

S300.100.002

- Tablet PC Gaumard Vitals™ virtual patient monitor
- Includes 1 Gaumard Vitals™ activation code for a Gaumard patient simulator

DEFIBRILLATION CABLES

S300.100.126 Philips

S300.100.127 Physio LIFEPAK®

S300.100.128 Zoll®

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 with OMNI® 2

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 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

Programmable Cyanosis

Oral and nasal intubation

Realistic chest rise and pulses after resuscitation. Internal air reservoir provides continuous operation for up to 2 minutes

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)

CODE BLUE® III FAMILY | *ALS and Emergency Care Simulators*

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 interface layout allows can simulate the look and feel of a variety of standard patient monitors
- Programmable high/low alarms
- Built-in virtual defibrillator
- Touch-screen enabled controls
- Links wirelessly to the patient simulator's control interface

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

Code Blue III Pediatric Features

- Wireless and tetherless design; fully operational in transit
- Wireless OMNI 2 simulator control interface included
- 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 main stem 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 bagging with esophageal intubation
- 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
- Built-in rechargeable battery
- Includes USB communications module and cable

CODE BLUE® III PEDIATRIC

S300.105.250.PK
Patented; other patents pending

Skin tones available at no extra charge ● ● ●

UNI® TABLET PC UPGRADE

S300.105.215

Upgrade the simulator's control interface from OMNI 2 to the powerful UNI® Simulator Control Software.

- Microsoft Surface Pro preloaded with UNI®
- UNI® Simulator Control Software License
- RF communications module
- Upgrade only available at the time of order

Accessories

BEDSIDE VIRTUAL PATIENT MONITOR

S300.105.001.R2

- Touch-Screen All-in-one PC Gaumard Vitals™ virtual patient monitor
- Includes 1 Gaumard Vitals™ activation code for a Gaumard patient simulator

MOBILE VIRTUAL PATIENT MONITOR

S300.105.002

- Tablet PC Gaumard Vitals™ virtual patient monitor
- Includes 1 Gaumard Vitals™ activation code for a Gaumard patient simulator

DEFIBRILLATION CABLES

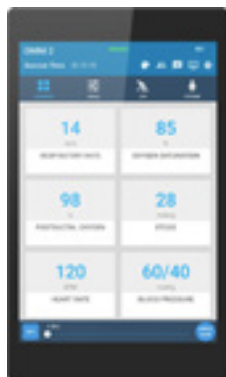#### S300.105.126 Philips

S300.105.127 Physio LIFEPAK®

S300.105.128 Zoll®

TRANSPORT CASE

S300.105.060

Soft transport case for Code Blue® III pediatric patient simulator.

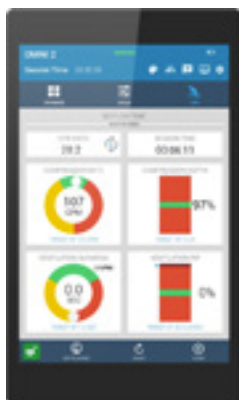## Introducing The New Wireless
Code Blue® III Newborn with OMNI® 2

The new wireless Code Blue III Newborn offers the best value in neonatal resuscitation simulation-based learning.

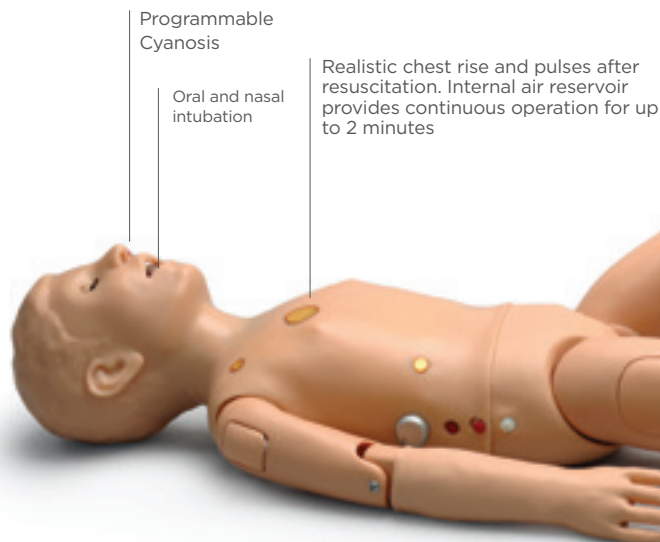### OMNI®2 WIRELESS
CONTROL INTERFACE INCLUDED

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

Refillable internal air reservoir provides spontaneous (automatic) chest rise and pulses after resuscitation for up to 60 seconds

Programmable cyanosis

Oral and nasal intubation

Audible crying and grunting

Intraosseous access

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 feeback 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

CODE BLUE® III FAMILY | *ALS and Emergency Care Simulators*

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 interface layout allows can simulate the look and feel of a variety of standard patient monitors
- Programmable high/low alarms
- Built-in virtual defibrillator
- Touch-screen enabled controls
- Links wirelessly to the patient simulator's control interface

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

Code Blue III Newborn Features

- Wireless and tetherless design; fully operational in transit
- Wireless OMNI 2 simulator control interface included
- 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 main stem 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
- Auscultate 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 PEDIATRIC

S300.110.250.PK
Patented; other patents pending

Skin tones available at no extra charge ● ● ●

UNI® TABLET PC UPGRADE

S300.110.215

Upgrade the simulator's control interface from OMNI 2 to the powerful UNI® Simulator Control Software.

- Microsoft Surface Pro preloaded with UNI®
- UNI® Simulator Control Software License
- RF communications module
- Upgrade only available at the time of order

Accessories

BEDSIDE VIRTUAL PATIENT MONITOR

S300.110.001.R2

- Touch-Screen All-in-one PC Gaumard Vitals™ virtual patient monitor
- Includes 1 Gaumard Vitals™ activation code for a Gaumard patient simulator

MOBILE VIRTUAL PATIENT MONITOR

S300.110.002

- Tablet PC Gaumard Vitals™ virtual patient monitor
- Includes 1 Gaumard Vitals™ activation code for a Gaumard patient simulator

TRANSPORT CASE

S300.110.060

Soft carrying case 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
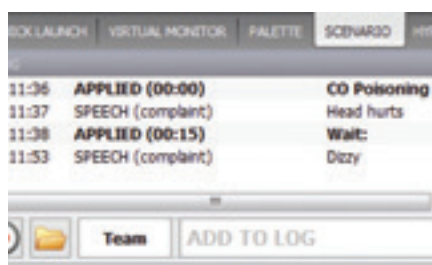
Changes in condition and care are time-stamped and logged

Hypoxic model responds to care provider actions
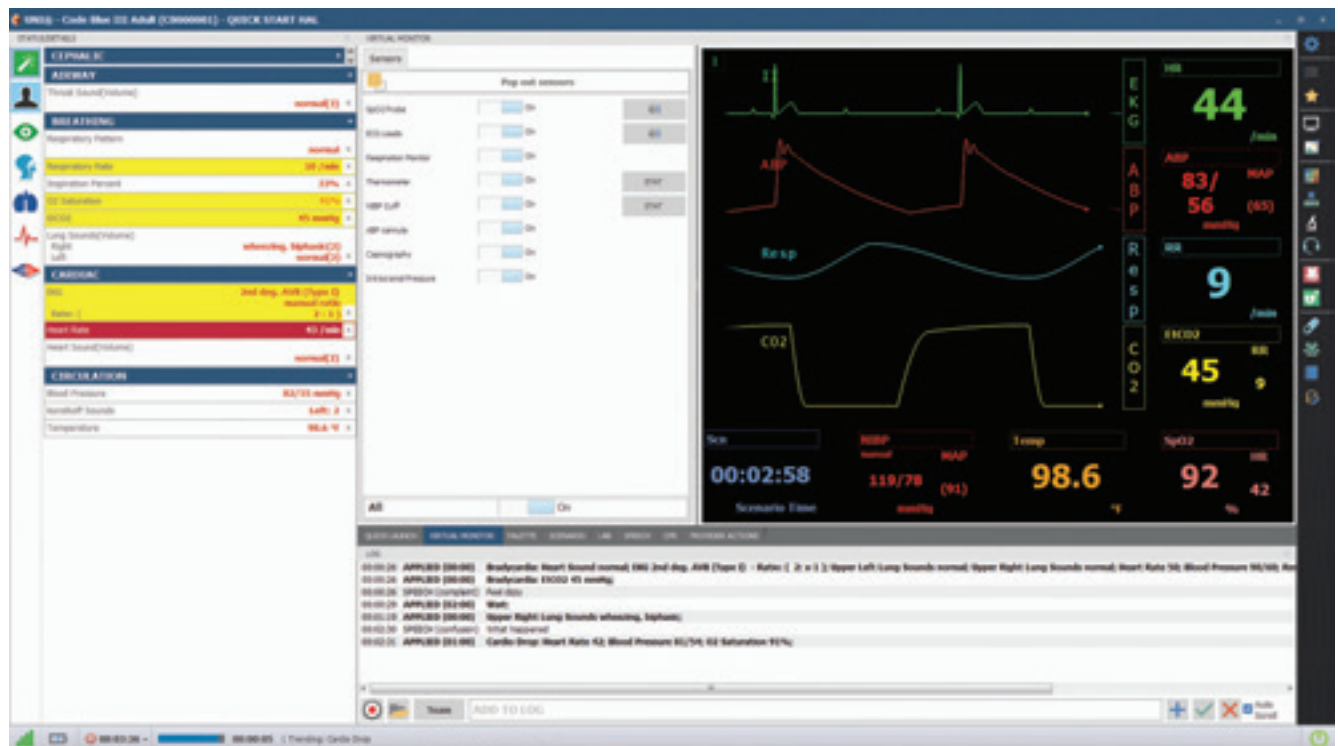
UNI® features easy to use controls, logging tools, and a built-in patient vital signs monitor view.

CODE BLUE® III FAMILY | *ALS and Emergency Care Simulators*

Features	S300.100.250	S300.105.250	S300.110.250
Airway sounds and vocal responses	●	●	●
Supports bag valve mask ventilation	●	●	●
Visible vocal cords	●	●	●
Head tilt-chin lift and jaw thrust	●	●	●
Oral/Nasal intubation (ET)	●	●	●
Intubation depth detection	●	●	●
Preprogrammed speech responses	●	●	–
Bilateral lung expansion with bag-valve ventilation	●	●	●
Unilateral chest rise with right main-stem 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	●	●	–
Wired 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 tones available at no extra charge ● ● ●

● Standard   ○ Optional Add-On/Accessory

* Price when purchased at the time of order.

TRAUMA HAL®

S3040.100 / S3040.50 / S3040.10
Rugged, Resilient, and Tetherless

- Rugged 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 hour battery life

TRAUMA HAL® S3040.100 | *Rugged and Resilient Trauma Simulator*

A rugged and resilient trauma simulator for teaching care on the battlefield. A rugged and resilient trauma simulator for teaching care on the battlefield. Independent testing has proved HAL's toughness and durability in hot and cold conditions, wet and dry environments, and in both fixed-winged aircrafts and military helicopters. HAL® is splash proof, fits in a NATO litter, and can be covered with a blanket without overheating.

TESTED

Trauma HAL® is based on the proven technology found in the HAL® 3000 which was independently tested and approved.

MIL-STD tests included vibration, EMI testing for avionics, high and low temperatures, humidity, rapid decompression at 45000 feet, explosive atmospheres, and flight testing in fixed and rotary-winged craft.

TETHERLESS

HAL's communications, compressor, and power supply are inside the simulator, eliminating external tubes, wires, and compressors. Control the simulation from up to 900 ft. away.

REALISTIC

- Streaming voice and prerecorded verbal responses in any language
- Difficult airway with tongue edema and pharyngeal swelling
- Chest rise and fall responding to commands from wireless tablet PC
- Palpable ribs
- Height 178cm/70in
- Radial, brachial, carotid and femoral pulses operate continuously and are dependent upon blood pressure
- Articulating neck, arms, and legs feature rugged joints for field use
- Interchangeable arms and legs

Articulating Neck, Shoulder, Hips, Arms and Legs Feature Rugged Joints for Field Use

Interchangeable Arms and Legs

Intraosseous Right Leg with Replaceable Tibial Bones

OSAT Placement Detection

Venous Network for IV Administration

Bleeding from Two Arteries in the Forearm and Three Arteries in the Legs Controlled by Physiologic Model and Respond to Tourniquet Application

Sensors in Arm and Leg Respond to Applied Pressure and Can Be Packed Using Combat Gauze

Male Genitalia with Fluid Reservoir for Catheterization

Pulse Points Operate Continuously and Are Dependent Upon Blood Pressure

Tourniquet Placement Range in Extremities. Place Tourniquet Anywhere Above Wound

Easy Fluid 1.5 lt Refill Port

Bleeding Wounds at Axilla and Groin Respond to Applied Pressure

Pressure On Femoral Sensor Occludes Distal Bleeding in Leg

AXILLA AND GROIN WOUNDS

Sensors in wounds detect when pressure is applied, reduce, then stops blood flow from the injury.

NEEDLE DECOMPRESSION

Features palpable ribs to locate 2nd intercostal space for bilateral needle decompression. Sensors detect needle insertion and activate audible hiss during shallow needle insertion.

TRAUMA ARM AND LEG

Arteries bleed as a function of BP + HR specified on wireless tablet PC. Bleeding ceases when a tourniquet is applied 2in above wound or 1 or 2in above the joint.

Bowel Sounds in Four Quadrants

Chest Rise/Fall in Response to Wireless PC Commands

Right Blood Pressure Arm

Chest Tube Placement

3 Lead ECG + Defibrillation and Pacing

Put Liquid in the Airway to Practice Suction Exercises

Surgical Cricoid Assembly (SCA) for Use with Tactical Cricothyroidotomy Kit

Difficult Airway with Tongue Edema, Pharyngeal Swelling and Laryngospasm

Eyes Open and Close; Light Reactive Pupils

Central Cyanosis

Use Fast-1 Sternal I/O

Streaming Voice and Pre-Recorded Responses

Independent Secretion at Ear, Eyes and Mouth

Bilateral IM Sites in Deltoids and Quadriceps

Improved Arm Joints for Inner Forearm IV Placement

Palpable Ribs

Four Anterior Lung Sounds

Bilateral Decompression to 3.25in; Sensor Reports Result and Activates Audible Hiss During Shallow Needle Insertion

Bilateral Antecubital Venous & Arterial Line

SURGICAL CRICOID

Perform lateral and medial incisions, then use "Trach-hook" used by Combat Medics to lift cricoid for airway assessment and insertion of "trach-tube".

FAST-1 STERNAL I/O

Use FAST-1 Locator and position it below the sternal notch; sites are replaceable and either accept medications or can be used to collect fluids.

STREAMING AUDIO

Pre-recorded verbal responses in any language and bi-directional streaming audio up to 150 ft. away.

TRAUMA HAL® | *Rugged and Resilient Trauma Simulator*

DECONTAMINATION CAPABLE

Fully functional during soap and water decon spray procedure.

LIQUID SECRETION

Independent liquid secretion rate at ear, eyes, and mouth.

HEART AND LUNG SOUNDS

Multiple realistic heart sounds and four anterior lung sounds.
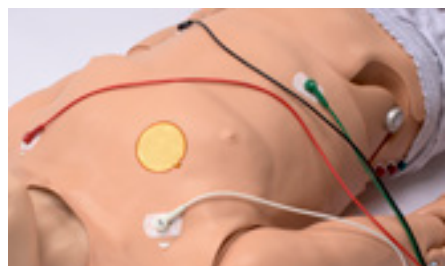
4 LEAD ECG

Optional 12-lead ECG. Use real equipment to obtain HAL's ECG.

DEFIBRILLATION & PACING

Perform defibrillation and pacing with real AED pads.

BOWEL SOUNDS

Bowel sounds in four quadrants.

BLOOD PRESSURE

Blood pressure can be taken using real equipment

OXYGEN SATURATION

Oxygen saturation can be taken using real equipment.

CYANOSIS

Cyanosis and vital signs respond to physiologic condition and interventions.

TRAUMA HAL® | *Rugged and Resilient Trauma Simulator*

RIGHT INTRAOSSEOUS LEG
Intraosseous infusion system with interchangeable and replaceable tibial bones.

PROGRAMMABLE AIRWAY
Programmable airway: tongue edema, laryngospasm, and pharyngeal swelling.

BILATERAL LEG BLEED
Bleeding arteries in both right and left legs.

CPR SENSORS
Sensors detect and log ventilations and compressions. Includes eCPR with UNI® software.

LIQUID SUCTION
Practice gastric liquid suctioning techniques.

CATHETERIZATION
Practice catheterization.

CHEST TUBE PLACEMENT
Simulate pneumothorax exercises.

GASTRIC DISTENTION
Gastric distention with esophageal intubation and with excess BVM ventilation.

NASAL & ORAL INTUBATION
Endotracheal intubation using conventional ETTs. Unilateral chest rise with right mainstem intubation.

TRAUMA WITH SMART BLEEDING

HAL's arteries bleed as a function of the blood pressure and heart rate specified on the wireless tablet PC. Sensors in his arm and leg respond to applied pressure and stop bleeding when a tourniquet is applied correctly. His bleeding wounds at axilla and groin also respond to applied pressure and can be packed using combat gauze.

BILATERAL TRAUMA ARMS

GROIN WOUND

AXILLA WOUND

BILATERAL TRAUMA LEGS

TRAUMA HAL® S3040.100 | *Rugged and Resilient Trauma Simulator*

RUGGED

Instructor's tablet PC includes a rugged "bump" case and also features wireless communications for up to 900 ft...perfect for field conditions.

VERSATILE INTERFACE

Expand windows to include status, palettes, scenario, branching scenario, actions, log, monitors, speech, medication, and quick meds.

TESTED

Trauma HAL® is based on the proven technology found in the HAL® 3000 which was independently tested and approved.

MIL-STD tests included vibration, EMI testing for avionics, high and low temperatures, humidity, rapid decompression at 45000 feet, explosive atmospheres, and flight testing in fixed and rotary winged craft.

LONG RANGE

Tetherless communications range up to 900 ft.

SIMPLE INTERFACE

Physiologic parameter groups include airway, breathing, cardiac, cephalic and circulation.

REALISTIC

- Streaming voice and pre-recorded verbal responses in any language
- Difficult airway with tongue edema, laryngospasm, and pharyngeal swelling
- Chest rise and fall respond to commands from wireless tablet PC
- Palpable ribs
- Height 178 cm/70 in
- Radial, brachial, carotid and femoral pulses operate continuously and are dependent upon blood pressure
- Articulating neck, arms, and legs feature rugged joints for field use
- Interchangeable arms and legs

STREAMING AUDIO

Be the voice of Trauma HAL®; hear responses at distances to 150 ft.

TETHERLESS

HAL's communications, compressor, and power supply are inside the simulator, eliminating external tubes, wires, and compressors. Control the simulation from up to 900 ft. away.

TRAUMA HAL® | *Model Comparison*

Features	S3040.100	S3040.50	S3040.10
Tactical Protocols			
Care under fire	●	●	●
Tactical evacuation	●	●	●
Decontamination	●	●	●
Tactical field care	●	●	-
In-hospital trauma care	●	-	-
Anatomy			
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
Neurologic Response			
Programmable blink rate and eye dilation	●	-	-
Programmable seizure/convulsion intensity	●	-	-
Eye, Ear, and mouth secretions	●	-	-
Streaming Voice	●	O	-
Preprogrammed speech responses	●	●	●
Airway			
Programmable airway sounds	●	●	●
Airway complication: laryngospasms	●	●	-
Tongue edema and pharyngeal swelling	●	-	-
Surgical tracheotomy / Cricothyrotomy airway	●	●	-
Realistic airway with teeth, tongue, epiglottis, and vocal cords	●	●	●
Articulating neck and jaw for head tilt / chin lift/ jaw thrust	●	●	●
Oral and nasal Intubation (ETT, Supraglottic Airway, King LT®)	●	●	●
Tracheal suctioning (fluids)	●	●	●
Respiratory			
Spontaneous chest rise (Automatic using internal compressor)	●	●	-
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	●	●	-
Lung sounds	●	●	-
Bilateral chest drain	●	●	-
Real CO_2 exhalation †	O	O	-
Circulatory			
Central cyanosis	●	-	-
Bilateral Intravenous training arm	●	●	-
Oxygen Saturation measurement with real instruments	●	-	-
Automatic NIBP	O	-	-
Blood pressure auscultation (Real BP cuff)	●	●	-
Korotkoff sounds	●	●	-

TRAUMA HAL® | *Model Comparison*

Features	S3040.100	S3040.50	S3040.10
Spontaneous pulses (Automatic using internal compressor)	•	•	•
Bilateral carotid	•	•	•
Bilateral brachial	Right only	-	-
Bilateral brachial cubital	•	-	-
Bilateral radial	•	•	Right only
Bilateral femoral	•	•	•
Bilateral popliteal	•	-	-
Bilateral pedal	•	•	-
Femoral artery pressure sensor	•	•	•
Sternal intraosseous access	•	-	-
Intraosseous access at right tibia	•	•	-
Bilateral intramuscular injection sites in quadriceps and deltoids	•	•	•
Cardiac			
eCPR™ Compression depth and rate measured and logged	•	•	•
Effective compressions generate palpable pulses	•	•	•
Defibrillate and pace using real devices	•	•	•
Heart Sounds	•	•	-
12-Lead ECG (MI Model + ECG Designer)	O	O	-
4-Lead ECG	•	•	-
Gastrointestinal			
Urinary catheterization	•	-	-
Esophageal / gastric suctioning	•	•	•
Bowel Sounds (Quadrant)	•	-	-
Gastric distension with excessive BVM	•	•	•
Trauma			
Trauma limbs with bleeding	•	•	•
Bilateral trauma arm	•	Left only	Left only
Bilateral trauma leg	•	Left only	Left only
Axilla trauma wound with pressure sensor	•	-	-
Groin trauma wound with pressure sensor	•	•	•
Healthy lower arms and legs	•	•	•
Automatically filling blood reservoir	1.5 Liter	1 Liter	1 Liter
Power			
Wireless communication	(up to 900ft)	(up to 900ft)	(up to 90ft)
Internal battery	•	•	•
Battery life (hours)	10	8	8
Other			
Software	UNI®	UNI®	OMNI® OS
Controller	Tablet PC	Tablet PC	OMNI®2
Automatic physiologic control	O	-	-
Mobile patient monitor	O	O	O
Rolling travel case	•	•	•

† Option available only at the time of purchase   • Standard   O Optional Add-On/Accessory

TRAUMA HAL® S3040.100 | *Rugged and Resilient Trauma Simulator*

S3040.100 DETAILED FEATURES

- Full-body adult 70 inches (178 cm), 88 lbs. (40 kg)
- Rugged shoulder and hip joints allow dragging and carrying
- Splash-proof for CBRNe water spray decontamination
- Self-contained design all operating components and blood reservoirs stored inside the body
- Wireless and tetherless control; at distances of up to 900ft.
- Fully operational on battery power for up to 10hrs (AC power supported)
- Interchangeable trauma/healthy lower arms and legs
- Designed for fast scenario resets with automatic self-refilling reservoir system
- Ruggedized for outdoor climate

NEUROLOGIC

- Blinking eyes with reactive pupils
- Software controlled fluid secretion at ears, eyes, and mouth
- Mild and severe convulsions
- Wireless streaming audio; be the voice of Trauma HAL and hear responses at distances up to 150 ft.
- Library of prerecorded responses
- Programmable custom verbal responses in any language

AIRWAY

- Head tilt/chin lift
- Naso/orotracheal intubation: ETT, LMA, King LT
- Retrograde intubation
- Fiber optic intubation
- Programmable difficult airway: tongue edema and pharyngeal swelling
- Laryngospasm with tight seal preventing intubation
- Surgical airway for cricothyrotomy, tracheotomy, and tracheal hook exercises
- Supports suctioning liquids from the airway and lungs
- Visible gastric distention with esophageal intubation

BREATHING

- Visible chest rise with BVM
- Ventilation detection
- Shallow and deep needle decompression with audible hiss and needle placement detection up to 3.25in.
- Unilateral chest rise and right mainstem intubation
- Spontaneous chest rise and fall with normal and abnormal respiratory patterns
- Selectable anterior lung sounds
- Bilateral chest tube insertion

CARDIAC

- Selectable normal and abnormal heart sounds
- Preprogrammed ECG rhythm library with customizable variations
- 4-Lead ECG monitoring using real equipment (12-lead option available item S3040.100.120)
- Defibrillation and pacing using real energy

CPR

- eCPR™ Real-time CPR performance monitoring
  » Time to CPR
  » Compression depth/rate
  » Chest recoil
  » Compression interruptions
  » Ventilation rate
  » Excessive ventilation
  » Time to defibrillation
- Smart CPR voice coach
- Real end-tidal CO_2 capability (option S3040.100.078)
- Durable chest recoil design

CIRCULATION

- Programmable cyanosis
- Measure blood pressure using a real blood pressure cuff
- Detectable oxygen saturation using real OSAT monitors
- Antecubital IV access
- Bilateral carotid, radial, brachial (antecubital fossa), femoral, popliteal, and pedal pulses
- Blood pressure dependent pulses
- Sternal I/O infusion supports F.A.S.T.1
- Tibia I/O access
- Bilateral deltoid and quadriceps IM injection sites

TRAUMA

- Quadruple trauma limbs: Interchangeable trauma lower arms and legs included
- Bleeding axilla and groin wounds detect applied pressure
- Trauma site arterial bleeding synched with heart rate and blood pressure
- Blood pressure control bleeding rate
- Arm and legs tourniquet sensors
- Pressure on femoral artery reduces or stops distal bleeding in leg
- On board 1.5 Lt. blood reservoir
- Automatic self-refilling reservoir system
- On-screen blood loss monitor and reservoir level

GASTRO-INTESTINAL

- Internal fluid bladder with male genitalia for catheterization
- Bowel sounds in four quadrants

UNI® UNIFIED SIMULATOR CONTROL SOFTWARE

- Unified Interface Design
- Manual and Automatic Operating Modes
- 3D Patient Visualization
- Virtual patient monitor view
- Scenario designer
- Preprogrammed scenario library
- eCPR™ – CPR effectiveness monitor and trainer
- Lab report designer
- Medication library with editor
- Questionnaire form designer
- Time-stamped event logging
- Provider actions tracker
- UNI Control View Replay

TURNKEY PACKAGE INCLUDES

- Wireless tablet PC, protective "bump" case, and UNI software license
- RF Communications Module
- Battery charger/Power supply
- L/R Healthy lower arms and legs
- L/R Trauma lower arms and legs
- Axilla and groin wound inserts
- Replacement surgical tracheas
- Soft carrying case
- Hands-free blood refill bag
- User Manual
- One-Year Limited Warranty
- Extended warranty plans available

TRAUMA HAL® S3040.100 | *Rugged and Resilient Trauma Simulator*

TRAUMA HAL®

S3040.100.PK
S3040.50.PK
S3040.10.PK

Patented; other patents pending

Skin tones available at no extra charge

Light / Medium (standard) / Dark

OPTIONS

CO₂ EXHALATION

S3040.100.078
- Real and measurable EtCO₂
- 10 programmable levels of CO₂ output
- Internal CO₂ system allows tetherless operation

AUTOMATIC "PHYSIOLOGIC" CONTROL

S3040.100.600
- Intuitive interface and automaticity makes simulation easy
- Vital signs are generated in real-time
- Drug library with medications
- Use of medications change conditions in real-time mimicking real clinical situations
- Blood loss automatically affects related vital signs

12 LEAD ECG

S3040.100.120
- Use a 12 lead ECG monitor
- Defibrillate, cardiovert or pace
- HAL's dysrhythmia
- Design 12 lead ECGs using our editing feature
- Create and modify waveforms even on a "point-by-point" basis
- Monitor ECG using real equipment
- Use the integrated MI module to:
  » Specify occlusions, ischemia, injury, necrosis
  » Modify infarctions quickly and easily
  » Resultant dynamic 12 lead ECG quickly generated

MOBILE VIRTUAL MONITOR

S3040.100.002
- Interactive virtual patient monitor displays vital signs in real-time
- Display numeric values and waveforms
- Customizable layout
- Customizable threshold alarms

CONSUMABLES

INTRAOSSEOUS STERNAL ACCESS SITE
S3040.100.121

SET OF 5 SURGICAL TRACHEA INSERTS
S3040.100.035

SET OF 10 TRACHEA SKIN COVERS
S3040.100.122
Skin tones available at no extra charge

SET OF 10 CRICOTHYROID MEMBRANES
S3040.100.037.R2

IV FILL KIT (STANDARD)
S3040.100.048

EXTERNAL BLOOD FILLING KIT
S3040.100.050

BLOOD CONCENTRATE
GU.080

MINERAL OIL
GU.181

REPLACEMENT ITEMS

TRAUMA ARM
S3040.100.005
Skin tones available at no extra charge

TRAUMA LEG
S3040.100.004
Skin tones available at no extra charge

AXILLA WOUND INSERT
S3040.100.109A
Skin tones available at no extra charge

GROIN WOUND INSERT
S3040.100.109G
Skin tones available at no extra charge

AXILLA HEALTHY INSERT
S3040.100.108A
Skin tones available at no extra charge

GROIN HEALTHY INSERT
S3040.100.108G
Skin tones available at no extra charge

BATTERY CHARGER
S3040.100.011

RF COMMUNICATIONS MODULE
S3040.100.206

CHEST SKIN REPLACEMENT - NO ELECTRONICS

S3040.100.018

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

WOUND KITS

Adult and 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
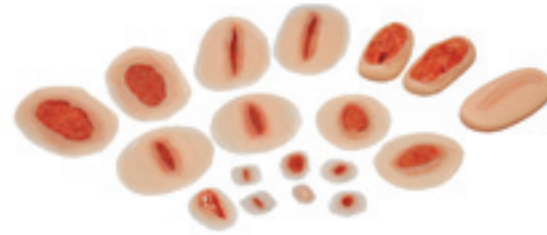- Carrying Case included

ADULT EMERGENCY WOUND KIT

WK100

11 wound types • 18 total wounds

Skin tones available at no extra charge ○ ● ●

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.

Thigh suture

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

ADULT BURN WOUND KIT

WK105

5 wound types • 10 total wounds

Skin tones available at no extra charge ○ ● ●

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

TRAUMA CARE

ADULT TRAUMA WOUND KIT

WK110

8 wound types • 10 total wounds

Skin tones available at no extra charge

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.
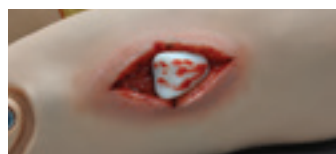
Open humerus fracture

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

Skin tones available at no extra charge

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.
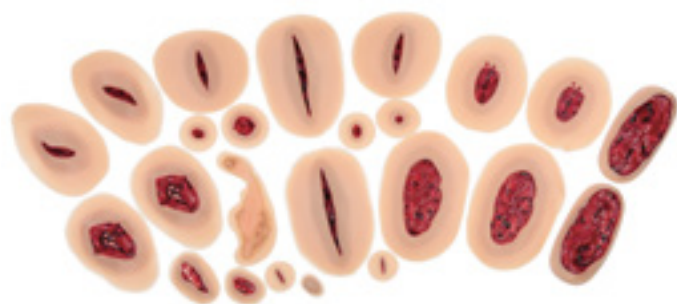
Small skin incision & skin abrasion

Left side boneless laceration
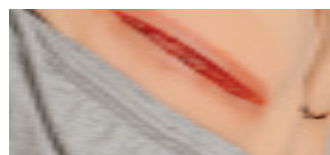
Knife wound and medium skin abrasion

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

Skin tones available at no extra charge ● ● ●

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.
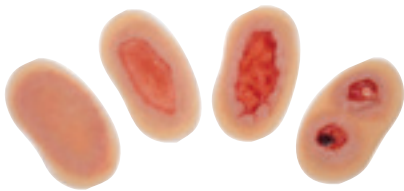
Stage 1 Decubitus Ulcer

Stage 2 Decubitus Ulcer

Stage 3 Decubitus Ulcer

Stage 4 Decubitus Ulcer

PEDIATRIC INCIDENT WOUND KIT

WK125

11 wound types • 15 total wounds

Skin tones available at no extra charge ● ● ●

These wounds simulate the most common injury types encountered in pediatric care, including bites, stings, abrasions, contusions, punctures, and incisions, allowing realistic practice of proper care management.

Femoral Abrasion

Bee Sting
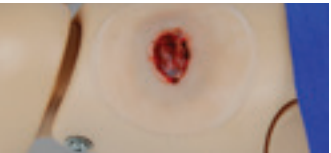
General Abrasion

Shoulder Abrasion

Skin Rash

General Incision

Head Contusion

Puncture Wound

Snake Bite

Human Bite

Canine Bite

TRAUMA CARE

PEDIATRIC BURN WOUND KIT

WK130

12 wound types • 12 total wounds

Skin tones available at no extra charge

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.
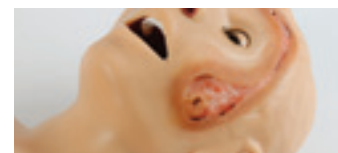
Facial Burn 3rd Degree
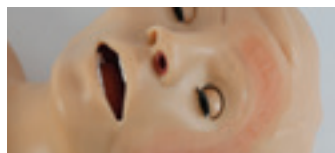
Facial Burn 1st Degree
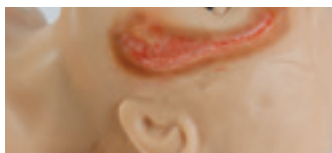
Facial Burn 2nd Degree

Chest Burn 3rd Degree

Chest Burn 1st Degree

Chest Burn 2nd Degree

Hand Burn 3rd Degree

Hand Burn 1st Degree

Hand Burn 2nd Degree

Neck Burn 1st Degree

Neck Burn 2nd Degree

Neck Burn 3rd Degree

PEDI TRAUMA WOUND KIT

WK135

9 wound types • 9 total wounds

Skin tones available at no extra charge

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

Skin tones available at no extra charge ● ● ●

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.
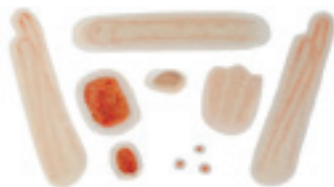
Close Cord Pattern

Infected Wound - Large

Infected Wound - Small

Belt Pattern Bruise

Open Hand Slap

Cigarette Burns
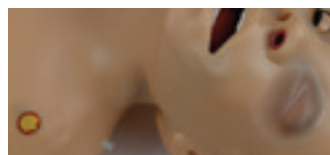
Eye Hematoma

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

BONDING KIT

WK115

WOUND BONDING KIT

Applies for Adult and Pediatrics

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.

TRAUMA CARE

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 WOUND KITS | *Burn, Incident, Rash, and Trauma Wound Kits*

NEWBORN INCIDENT KIT

WK150

6 wound types • 7 total wounds

Skin tones available at no extra charge ● ● ●

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

Skin tones available at no extra charge ● ● ●

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
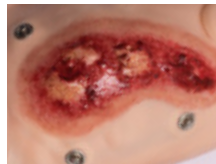
3rd-degree burn torso

1st-degree burn arm

2nd-degree burn arm

3rd-degree burn arm

NEWBORN SKIN / RASH KIT

WK160

5 wound types • 7 total wounds

Skin tones available at no extra charge ● ● ●

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

Skin tones available at no extra charge ● ● ●

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

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

SURGICAL CHLOE™ S2101 | *Full Body Surgical Simulator*

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.

SURGICAL CARE

REPLACEMENT UTERINE ASSEMBLIES

1 Normal Uterus with Ectopic Pregnancy and Uterus Hemorrhaging

2 Enlarged Uterus with Dermoid Cyst and Ectopic Pregnancy

3 Enlarged Fibroid Uterus with Endometrioma and Simple Cyst
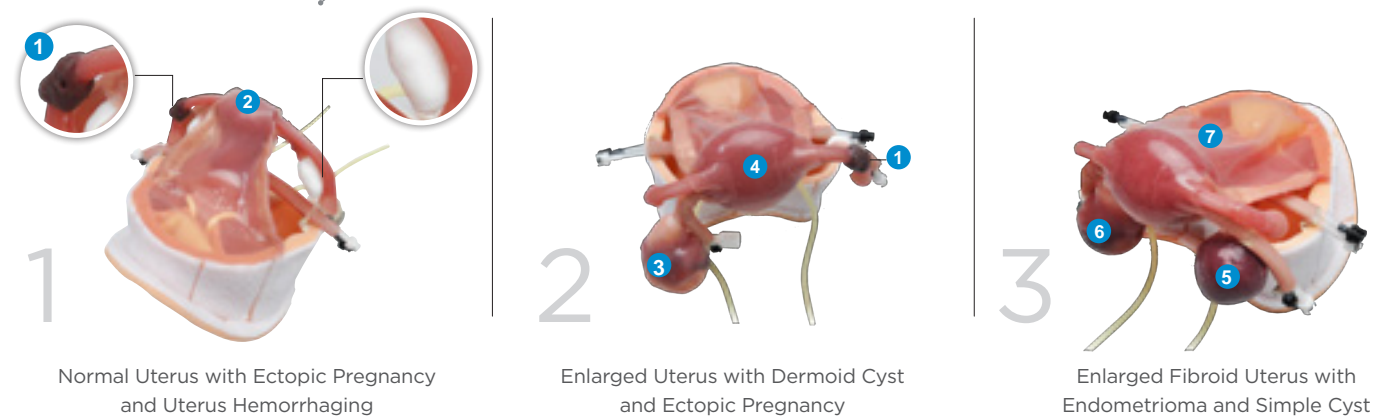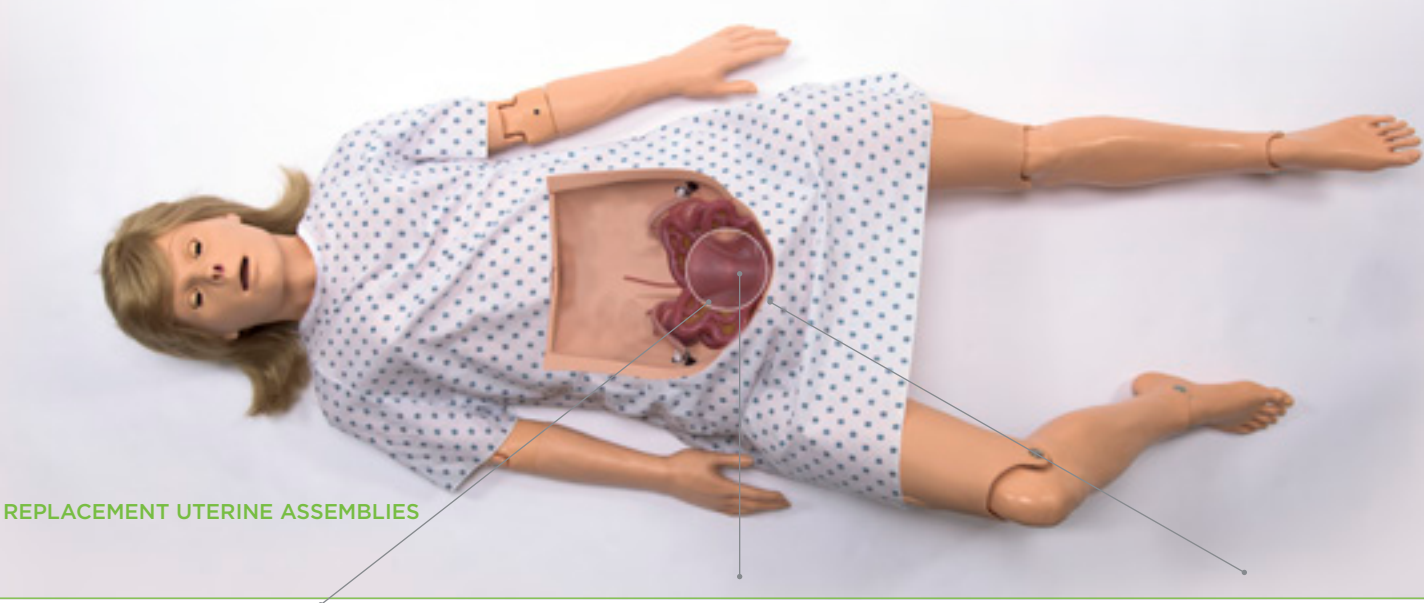
⬤ UNIQUE PATHOLOGIES

| COMMON FEATURES |

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

- Veins and Arteries Including Uterine and Ovarian
- Bladder
- Ovaries
- Fallopian Tubes
- Peritoneum
- Ureters
- Perineum with integrated Vagina
- Ligaments including round, uterosacral, infundibulopelvic, and cardinal

SURGICAL CHLOE™ S2101 | *Full Body Surgical Simulator*

TRAIN FOR EVERYTHING FROM ASSESSMENT TO RECOVERY ROOM

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.

PRACTICE 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

Detects and logs of chest compression and ventilation, bilateral carotid, radial, and brachial pulses; heart sounds, and programmable blood pressure.

TABLET PC WITH UNI® SOFTWARE

Control the simulator wirelessly with the intuitively simple UNI® software. Sensors track the actions of up to 6 participants and 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
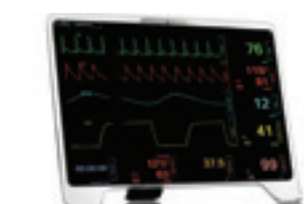
ALL-IN-ONE WITH VIRTUAL MONITOR SOFTWARE

Customize the display, alarms, and configurations of the virtual vital signs monitor to mimic the real monitors in your facility. Update vitals and share images such as ultrasounds, CT scans, lab results and all from the controller and tablet.

SURGICAL CHLOE™ S2101 | *Full Body Surgical Simulator*

GENERAL

- Full-body, adult patient simulator
- Available in light, medium, and dark skin tones
- 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
- Articulating head, jaw, shoulder, knees, and ankles
- Realistic rotation of the shoulder and hip joints
- Operates in supine or semi-recumbent position

NEURAL RESPONSES

- Eyes open and close manually
- Wireless streaming audio & prerecorded responses
- Create and store vocal responses in any language
- Instructor can simulate patient's voice and listen to caregivers conversation

AIRWAY

- Multiple upper airway sounds synchronized with breathing
- Perform Bag-Valve-Mask ventilations
- Head tilt/ chin lift
- Anatomically accurate airway including tongue, epiglottis, vocal cords, and esophagus
- Placement of conventional airway adjuncts
- Nasal or oral intubation
- Endotracheal intubation using conventional ETTs
- Placement of NG and OG tubes
- Sellick maneuver brings vocal cords into view

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
- Multiple programmable heart sounds, rates, and intensities
- Compressions are automatically detected, measured, and logged
- Chest compressions generate palpable pulse and ECG artifacts

CIRCULATION

- Measure blood pressure by palpation or auscultation real BP cuff rather than a "virtual" cuff to measure blood pressure
- Korotkoff sounds audible between systolic and diastolic pressures
- Bilateral carotid, brachial, and radial pulse sites synchronized with BP and ECG
- Oxygen saturation detected using real monitors rather than a "virtual" value
- Bilateral IV arms with fill/drain sites
- Realistic flashback
- 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 Components

LAPAROSCOPY ABDOMINAL WALL

- Includes eight(8) access ports on 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
- Incorporates bleeding
- Perform Pfannenstiel or vertical incision
- Place Laparoscopic trocars

BOWEL OVERLAY

- Insert that can be placed over uterine assembly for added realism
- Can be pushed aside using standard techniques to access underlying structures

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.
- Additional procedures that are possible on all uterine assemblies include: unilateral oophorectomy, conization of the cervix, chromopertubation, hysteroscopy. Existence of blood vessels allows assessment of surgical knot integrity.
- 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.

WORKBOOK BY MARTIN E. OLSEN, MD

- Workbook of ten (10) advanced scenarios and example surgical checklists:
  » Ruptured ectopic pregnancy
  » Pelvic mass in pregnancy
  » Septic abortion
  » Bleeding disorder - Von Willebrand's disease
  » Post-operative 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

TABLET WITH UNI® CONTROLLER SOFTWARE

- Sensors automatically track and document participants actions
- Changes in condition and care provided are time stamped and logged
- View the actions of up to 6 care providers using a responsive menu or write narrative
- Generate and share diagnostic lab results
- File sharing through Vital Signs Monitor
- Links to the recording and debriefing system, integrating the event log with cameras and patient monitor. Choose from 11 preprogrammed scenarios which can be modified by the instructor even during the scenario.
- Create your own scenarios - add/edit
- Change simulator's condition during the scenario

20"ALL-IN-ONE TOUCHSCREEN 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.

INCLUDES

- Surgical Chloe™ Surgical Patient Simulator
- Control Tablet PC preloaded with UNI® (Microsoft Surface™ Pro 4)
- UNI® License including 11 scenarios
- 20" Touchscreen All-In-One monitor preloaded with Virtual Monitor Software
- RF Communications Module
- Battery charger/Power Supply
- Four(4) abdominal wall inserts
- Twelve(12) uterine assemblies, four(4) of each type
- Workbook by Martin E. Olsen, MD.
- Soft-sided case with rollers
- 1 year standard warranty
- 2, 3, 5 year warranty plans also available
- User Manual

OPTIONAL

PORTABLE FUSION HD™ AUDIO/ VIDEO SYSTEM

- Two(2) Wireless cameras
- One(1) wired, mounted camera
- Records up to 8 video and audio streams along with 4 patient monitor feeds and a simulator log file
- Advanced search functionality, simultaneous multicomputer access, and instant playback
- Its compatibility with various wireless and wired cameras together with the ability to shoot multiple simulations simultaneously make it the best option for simulations of all types and sizes

SURGICAL CHLOE™

S2101.PK

Skin tones available at no extra charge ● ● ●

REPLACEMENTS

ABDOMINAL WALL INSERT

S2101.140

BOWEL OVERLAY

S2101.141

LAPAROSCOPY WALL

S2101.142

LAPAROTOMY ABDOMINAL WALL

S2101.142.1

UTERINE ASSEMBLY 1

S2101.143

UTERINE ASSEMBLY 2

S2101.144

UTERINE ASSEMBLY 3

S2101.145

SUSIE® S2000 | S1001 | S901

Clinical Nursing Patient Simulators

- Simulation Made Easy™
- Tetherless with wireless communications
- Fully responsive, even during transport
- Wireless streaming audio
- Automatic or instructor control

SUSIE® S2000 | *Advanced Female Patient Simulator*

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
- Psycho-motor 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 time-line 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

SUSIE® S2000 | *The First Advanced Female Patient Simulator*

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

SUSIE® S2000 | *The First Advanced Female Patient Simulator*

GENERAL

- Full-body adult patient
- Tetherless and wireless; fully responsive during transport
- Wireless control at distances of up to 300 ft. away
- Realistic joint articulation
- Compatible with optional virtual patient monitor
- Internal rechargeable battery; up to 4hr battery life

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 lungs 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
- Finger stick 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

Patented; other patents pending.

Skin tones available at no extra charge ● ● ●

- Tetherless Adult Patient Simulator
- UNI Tablet PC
- 10 Nursing SLEs
- Nursing SLEs Facilitator's Guide Vol. II
- GYN Pack and BSE Pack
- Accessories, user guide, roller case
- One-Year Limited Warranty
- Extended service plans available

BEDSIDE PATIENT MONITOR

S2000.001.R2

- Interactive virtual patient monitor
- Customizable layout mimics real patient monitors
- Customizable threshold alarms
- Display simulated ultrasounds, CT scans, lab results, x-rays

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, subseptate uterus.

SUSIE® S1001 | *Prehospital and Nursing Care*

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
- Psycho-motor 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

SUSIE® S1001 | *Clinical Nursing Patient Simulator*

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
- Wireless control at distances of up to 100 ft. away
- 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 lungs 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

Skin tones available at no extra charge ● ● ●

- Tetherless Adult Patient Simulator
- UNI Laptop PC
- 10 Nursing SLEs
- Nursing SLEs Facilitator's Guide Vol. I
- GYN Pack, accessories, user guide, roller case
- One-Year Limited Warranty
- Extended service plans available

BREAST EXAMINATION 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

BEDSIDE PATIENT MONITOR

S1001.001.R2

- Interactive virtual patient monitor
- Customizable layout mimics real patient monitors
- Customizable threshold alarms
- Display simulated ultrasounds, CT scans, lab results, x-rays

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.

Patient Monitor
Sold Separately

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 for

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

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- 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

SUSIE® S901 | *Clinical Nursing Patient Simulator with OMNI® 2*

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

GENERAL

- Full-body adult patient
- Female to male conversion
- Tetherless and wireless; fully responsive during transport
- Wireless control at distances of up to 40 ft.
- 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

Skin tones available at no extra charge ● ● ●

- Tetherless Adult Patient Simulator
- OMNI® 2 Wireless Control Interface 10 Nursing SLEs
- Nursing SLEs Facilitator's Guide Vol. I
- One-Year Limited Warranty
- Extended warranty plans available

BREAST EXAMINATION 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

GYNECOLOGICAL EXAM TRAINING 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 10-to-12-week pregnant cervices

BEDSIDE PATIENT MONITOR

S901.001.R2

PATIENT SIMULATOR TRANSPORT CASE

S901.060

- Soft roller case for transporting patient simulator and accessories

	Features	SUSIE® S2000	SUSIE® S1001	SUSIE® S901
General	Age	Adult	Adult	Adult
	Full-body patient	•	•	•
	Supports standard patient positions	•	•	•
	Female-to-male patient conversion	•	•	•
	Realistic joint articulation	•	•	•
	Tetherless; all operating components are contained inside the patient simulator	•	•	•
	Wireless communication	•	•	•
	Battery life[1]	4 hrs	4 hrs	4 hrs
	OMNI® 2 Compatible	-	•	•
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	Bilateral	Bilateral
	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	•	•	•

SUSIE® Series | *Features Comparison*

Features	SUSIE® S2000	SUSIE® S1001	SUSIE® S901
Circulation			
Cyanosis with variable intensities	•	-	-
SpO₂ monitoring support	Real monitors	Sensor detection	Virtual only
Palpable pulses (automatic)	•	•	•
Carotid	Bilateral	Bilateral	Bilateral
Brachial	Bilateral	-	-
Radial	Bilateral	Bilateral	Bilateral
Femoral	Bilateral	Bilateral	Bilateral
Popliteal	Bilateral	-	-
Pedal	Bilateral	Bilateral	Bilateral
BP measurement by auscultation using sphygmomanometer	Standard cuff	Modified cuff	Modified cuff
Realistic Korotkoff sounds	•	•	•
Bilateral IV access: bolus, infusion, and sampling	•	•	•
Bleeding finger	•	Optional	Optional
Virtual drug recognition arm	Optional	-	-
Anterolateral thigh and deltoid IM sites	•	•	•
Decubitus ulcers	•	•	•
Ulcerated foot	•	Optional	Optional
Gastrointestinal			
NG/OG insertion; gastric lavage and gavage	•	•	•
Selectable normal and abnormal bowel sounds	4 Quadrants	Bilateral	Bilateral
Patent stoma sites support colostomy and ileostomy care	•	•	•
Colostomy irrigation	•	•	•
Enema administration	•	•	•
Urinary catheterization with return	•	•	•
Interchangeable female and male genitalia	•	•	•
Women's Health			
Breast examination	•	•	•
Gynecological examination	•	•	•
OB/GYN Skills training package	•	•	Optional
Normal and abnormal uteri with internal pathologies	Optional	Optional	Optional
Normal and abnormal uteri with externally palpable pathologies	Optional	Optional	Optional
Breast examination skills training package	•	Optional	Optional
Control			
Simulator control interface (included)	UNI® Tablet PC	UNI® Laptop	OMNI® 2
UNI® Automatic Mode license	Optional	-	-
10 Nursing Simulation Learning Experiences (SLEs)	•	•	•
Nursing SLEs Facilitator's Guide	•	•	•
Touchscreen virtual patient monitor PC	Optional	Optional	Optional
Portable touchscreen virtual patient monitor PC	Optional	Optional	Optional
Transport case	•	•	Optional

• Standard   ○ Optional Add-On/Accessory

SUPER CHLOE™

SUPER CHLOE with OMNI 2

S222.100.250.PK

Skin tones available at no extra charge ● ● ●

SUPER CHLOE™ with OMNI 1

S222.100.PK

CLINICAL CHLOE™ ADVANCED

CLINICAL CHLOE Adv. with OMNI2

S222

Skin tones available at no extra charge ● ● ●

CLINICAL CHLOE Adv. with OMNI1

S222.PK

CLINICAL CHLOE™ ORIGINAL

S221.PK

Skin tones available at no extra charge ● ● ●

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
• 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 learn critical thinking and decision making skills.

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.
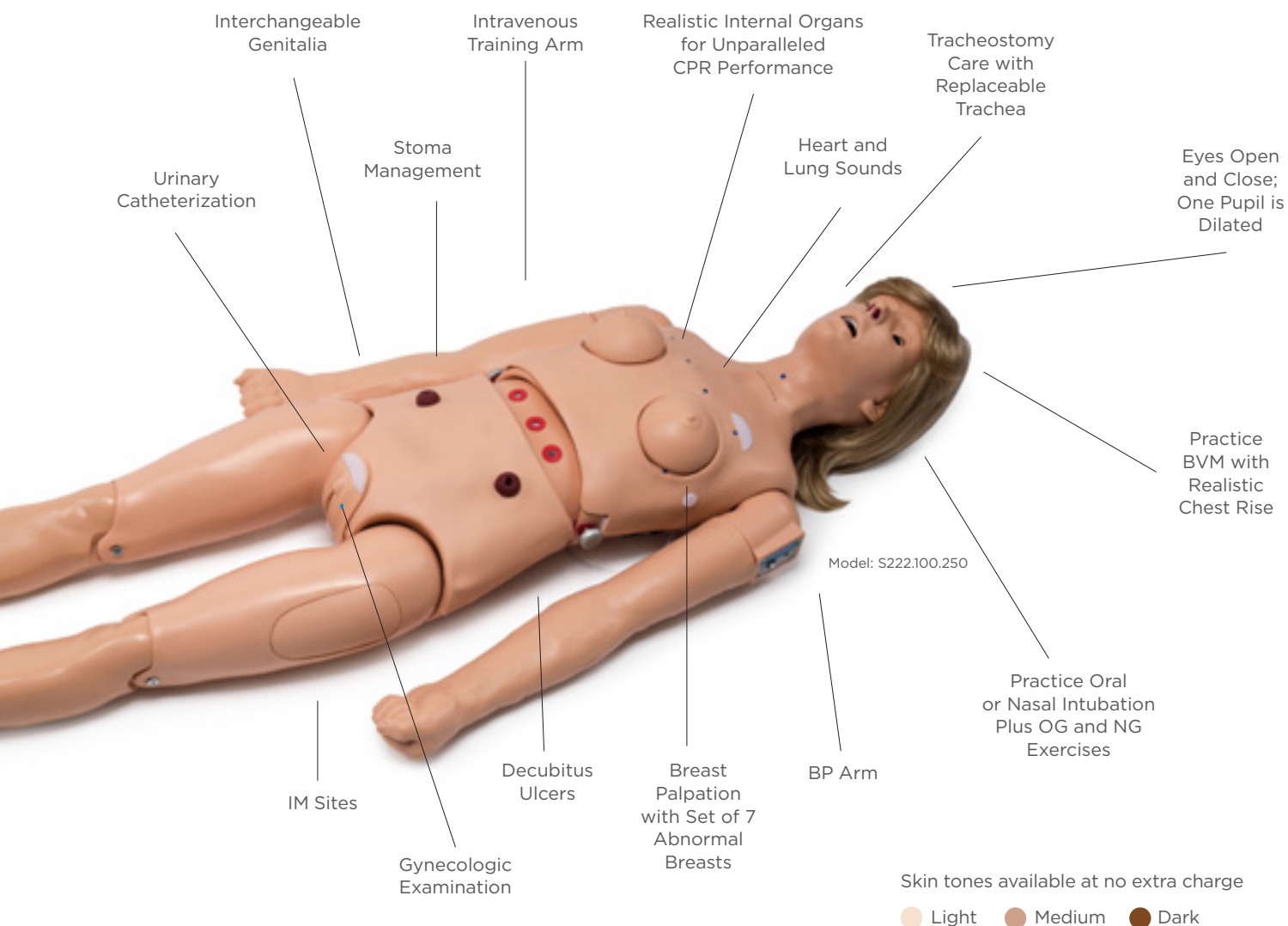

GYNECOLOGIC EXAMINATION

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.

NURSING CARE

SUPER CHLOE™ & CLINICAL CHLOE™ | *Advanced Patient Care Simulator*

Interchangeable Genitalia

Intravenous Training Arm

Realistic Internal Organs for Unparalleled CPR Performance

Tracheostomy Care with Replaceable Trachea

Stoma Management

Heart and Lung Sounds

Eyes Open and Close; One Pupil is Dilated

Urinary Catheterization

Practice BVM with Realistic Chest Rise

Model: S222.100.250

Practice Oral or Nasal Intubation Plus OG and NG Exercises

IM Sites

Decubitus Ulcers

Breast Palpation with Set of 7 Abnormal Breasts

BP Arm

Gynecologic Examination

Skin tones available at no extra charge

○ Light ● Medium ● Dark

OMNI BLOOD PRESSURE ARM

Adjustable systolic and diastolic pressures, auscultation gap, and pulse rate. Display tracks cuff pressure.

INJECTION & INFUSION

Injection arm for IV, IM, Sub Q and intradermal exercises.

HEART & LUNG SOUNDS

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

Features	S222.100.250 S222.100	S222.250 S222	S221.250 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	○	○	○
Set of two decubitus ulcers	•	•	○
Ulcerated foot	•	○	○
Manual palpable pulses	•	•	-
Interchangeable male and female organs (Both Included)	•	•	•
Blood pressure arm with real-time feedback	•	○	○
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	•	•	○
Heart and Lung Sounds			
Site Specific Heart and Lung sounds with Virtual Stethoscope	•	○	○
Breast Palpation			
Interchangeable male and female breast inserts	•	•	•
Breast palpation capability with 7 abnormal breasts	•	-	-
Breast palpation capability with 1 abnormal 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 chords and esophagus look and feel real	•	•	-
Nasal and oral tube placement	•	•	•
Nasal and oral intubation	•	•	-
NG and OG tube feeding and gastric suction	•	•	•

Skin tones available at no extra charge ● ● ●

• Standard   ○ Optional Add-On/Accessory

NURSING CARE | *Advanced Patient Care Simulators*

Features	S222.100.250 / S222.100	S222.250 / S222	S221.250 / S221
GYN Training			
Bi-manual 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
Base Price					
Upgrades					
OMNI Interface	OMNI 2 Included	OMNI 1 Included	OMNI 2 Included	OMNI 1 Included	OMNI 1 Included
GYN examination pack	(New Design) 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 tones available at no extra charge

• Standard o Optional Add-On/Accessory

SUSIE SIMON®

Advanced Patient Care Simulators

**Introduced more than 40 years ago, our Susie Simon®
simulator is synonymous with quality and value.**
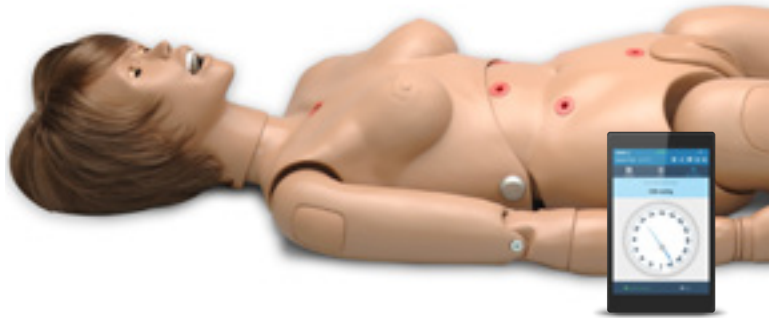
SUSIE® SIMON® with OSTOMY

SUSIE SIMON with OMNI 2
S201.250.PK

SUSIE SIMON Basic
S201.PK

Skin tones available at no extra charge
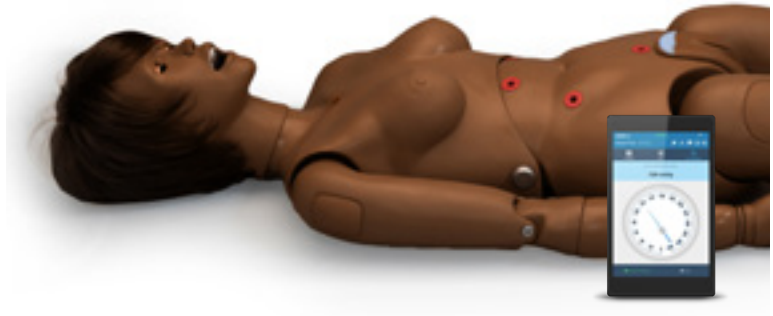
SUSIE® SIMON®

SUSIE SIMON with OMNI 2
S200.250.PK

SUSIE SIMON Basic
S200.PK

Skin tones available at no extra charge

SIMPLE SIMON®

SIMPLE SIMON with OMNI 2
S205.250.PK

SIMPLE SIMON Basic
S205.PK

Skin tones available at no extra charge

SIMPLE SUSIE®

SIMPLE SUSIE with OMNI 2
S206.250.PK

SIMPLE SUSIE Basic
S206.PK

Skin tones available at no extra charge

NURSING CARE

Features	S200 Susie Simon w/o Ostomy	S201 Susie Simon w/o Ostomy	S205 Susie Simon w/o Ostomy	S206 Susie Simon w/o Ostomy
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 faceskin, hands, feet, fingers, and toes	•	•	•	•
Simulated ear canal for otic drops and irrigation	•	•	•	•
Colostomy and ileostomy stomas to practice irrigation	○	•	-	-
Gastrointestinal procedures and enema administration	•	•	-	-
Stylish wig for haircare exercises and surgical draping	•	•	-	•
Amputation stump	○	○	○	○
Set of two decubitus ulcers	○	○	○	○
Ulcerated foot	○	○	○	○
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	○	○	○	○
Advanced Intravenous Training Arm	○	○	○	○
Arterial and Venous Training Arm	○	○	○	○
Heart and Lung Sounds				
Site Specific Heart and Lung sounds with Virtual Stethoscope	○	○	○	○
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	○	○	○	○
Instruction manual	•	•	•	•

Skin tones available at no extra charge ● ● ●

• Standard   ○ 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.

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 262.

- Intuitive touchscreen interface with built-in wireless
- 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 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 learn critical thinking and decision making skills.
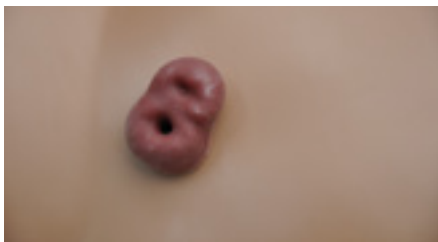
OSTOMY CARE

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	S201.250.PK	S201	S205.250.PK	S205	S206.250.PK	S206
Base Price								
Upgrades								
Blood pressure training arm with OMNI Interface	OMNI 2 Included	OMNI 1 S200.989	OMNI 2 Included	OMNI 1 S201.989	OMNI 2 Included	OMNI 1 S205.989	OMNI 2 Included	OMNI 1 S206.989
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 tones available at no extra charge ● ● ●

NURSING CARE

CODE BLUE®

Nursing Care and CPR

- eCPR™ - effectiveness monitoring and smart trainer
- Practice regular or counterpulsation CPR
- Mouth to mouth resuscitation
- 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® | *Nursing Care and CPR*

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

Skin tones available at no extra charge ● ● ●

CODE BLUE® with Disposable Airway

CODE BLUE with OMNI 2
S304.250.PK

CODE BLUE with OMNI 1
S304.PK

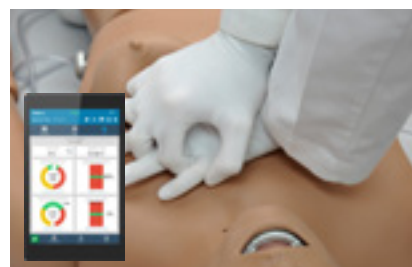Skin tones available at no extra charge ● ● ●

REALISTIC CHEST CAVITY FOR CPR

Realistc internal organs for unparalleled CPR performance.

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 FR 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.

NURSING CARE

CODE BLUE® | *Nursing Care and CPR*

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 2
S304.250.PK

CODE BLUE with OMNI 1
S304.PK

GENERAL CARE

- Soft, lifelike face skin
- Eyes open and close; one pupil is dilated
- Jointed elbows, wrists, knees, and ankles
- Bends at Bends at waist like a human
- Interchangeable genitalia for male and female catheterization
- Enema administration
- Set of 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
- Prostatic palpation and massage
- Amputation stump
- Neck brace
- Bilateral carotid and right radial pulse
- Carrying bag
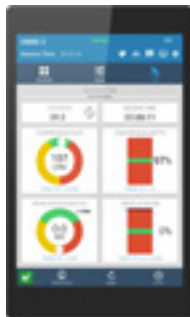
OMNI®2 REAL-TIME ECPR™ FEEDBACK

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

Learn more about the new OMNI 2 on page 258.

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

OTHER

ULCERATED FOOT

S303.765

DELTOID & ABDOMINAL INCISIONS

S303.980.1, S303.980.3
3 EA.

BUTTOCK INJECTION SITES

S303.857.3

PACKAGE OF 10 ONE-PIECE DISPOSABLE AIRWAYS

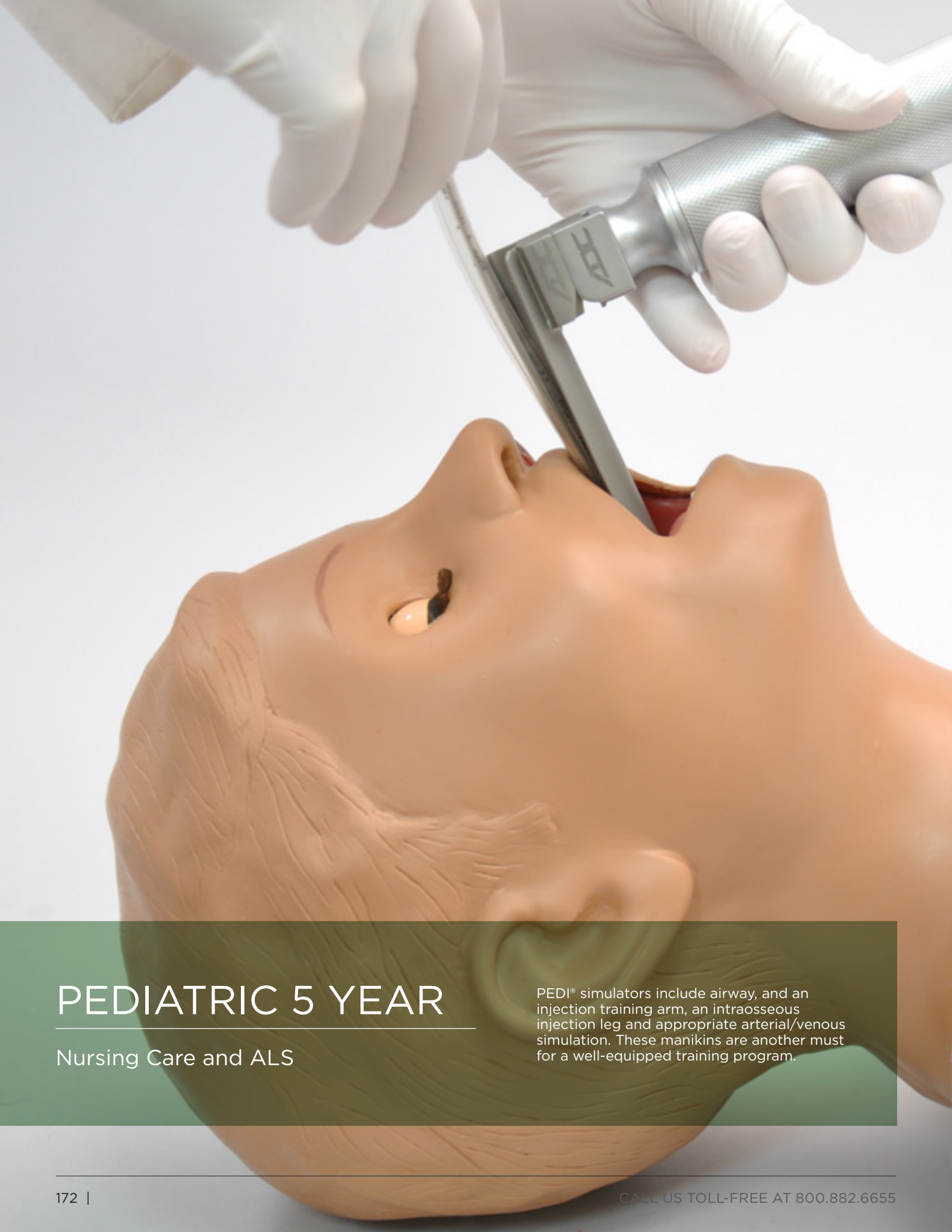**S304.841**

PACKAGE OF 100 ONE-PIECE DISPOSABLE AIRWAYS

S304.842

OMNI BLOOD PRESSURE ARM UPGRADE

S303.250.989
S303.989L
S304.250.989
S304.989L

PEDIATRIC 5 YEAR

Nursing Care and ALS

PEDI® simulators include airway, and 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.

MIKE & MICHELLE 5 YEAR®

Mike & Michelle with OMNI 2

S157.250.PK

MIKE & MICHELLE BASIC
S157.PK

Skin tones available at no extra charge ● ● ●

PEDI® 5 YEAR®

PEDI® 5 Year with OMNI 2

S155.250.PK

PEDI® 5 Year Basic

155.PK

Skin tones available at no extra charge ● ● ●

MIKE & MICHELLE 5 YEAR®

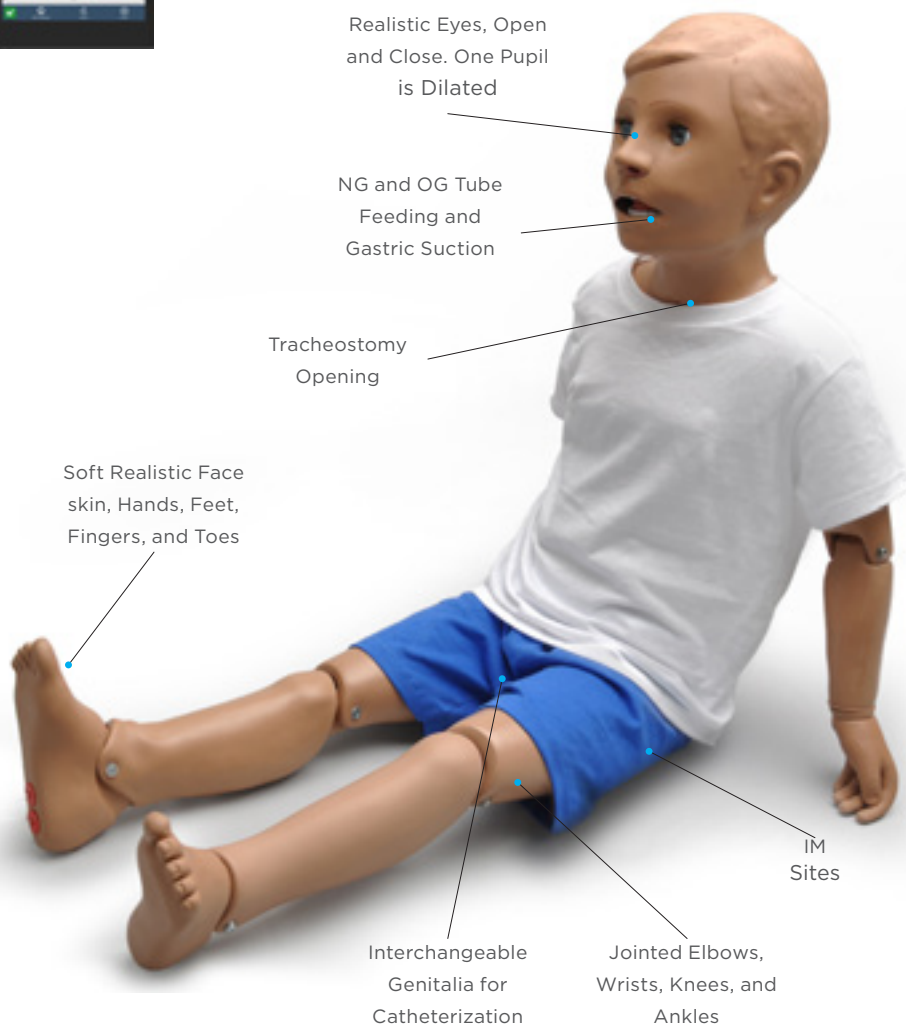Mike & Michelle Basic

S150.PK

Skin tones available at no extra charge ● ● ●

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

Realistic Eyes, Open and Close. One Pupil is Dilated

NG and OG Tube Feeding and Gastric Suction

Tracheostomy Opening

Soft Realistic Face skin, Hands, Feet, Fingers, and Toes

IM Sites

Interchangeable Genitalia for Catheterization

Jointed Elbows, Wrists, Knees, and Ankles

NURSING CARE

FULLY ARTICULATING

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

INTUBATABLE AIRWAY / ECPR™

Anatomically accurate airway with crico 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.PK	S157	S155.250.PK	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	•	•	•	•	•
Tongue and teeth and realistic airway	•	•	•	•	-
Intraosseous infusion	•	•	•	•	○
IV training arm	•	•	•	•	○
Femoral vein	•	•	•	•	-
Manual palpable pulses	•	•	•	•	-
Carotid, Femoral, Brachial	•	•	•	•	-
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	•	○	•	○	-
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, jaw, arm, and legs	•	•	•	•	•
Realistic internal organs	•	•	•	•	-
Detachable at waist for easy storage	•	•	•	•	•
T-shirt and shorts, soft carrying bag and instruction manual	•	•	•	•	•

Skin tones available at no extra charge ● ● ●

• Standard   ○ Optional Add-On/Accessory

NURSING CARE

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
- 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

Skin tones available at no extra charge Learn more about the new OMNI 2 on page 258 and OMNI 1 on page 262

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 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 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	S155.250.PK	S155	S150
Options					
OMNI interface with real-time CPR feedback	OMNI 2 Included	OMNI 1 S157.184	OMNI 2 Included	OMNI 1 S15.184	
Subclavian access	-		-		S150.707
IV training Arm	Included		Included		S150.803R.IV
I/O Access with bones	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 tones available at no extra charge ● ● ●

CALL US TOLL-FREE AT 800.882.6655

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

A perfect combination of nursing and emergency features

ONE YEAR MULTIPURPOSE PATIENT

One Year Multi. Patient with OMNI 2
S117.250.PK

One Year Multi. Patient with OMNI 1
S117.PK

Skin tones available at no extra charge ● ● ●

ONE YEAR PEDI® SIMULATOR

One Year PEDI with OMNI 2
S115.250.PK

One Year PEDI Basic
S115.PK

Skin tones available at no extra charge ● ● ●

MIKE® AND MICHELLE®

S110.PK

Skin tones available at no extra charge ● ● ●

Features	S117.250.PK S117	S115.250.PK S115	S110.PK
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	•	•	•
Tongue and teeth	•	•	–
Intraosseous infusion	•	•	o
IV training arm	•	•	o
Femoral vein	•	•	–
Manual palpable pulses	•	•	–
Radial	o	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 and realistic internal organs	•	•	–
Tracheostomy care	•	–	o
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 and molded internal organs	•	•	•
T-shirt and shorts, Soft carrying bag & Instruction manual	•	•	•

Skin tones available at no extra charge

• Standard   o Optional Add-On/Accessory

FEATURE COMPARISON

## OMNI 2 TOUCH SCREEN INTERFACE

OMNI®2 REAL-TIME eCPR™ FEEDBACK

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

Learn more about the new OMNI 2 on page 258and OMNI 1 on page 262.

HEART AND LUNG SOUNDS KIT WITH SMART STETHOSCOPE UPGRADE

- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate 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
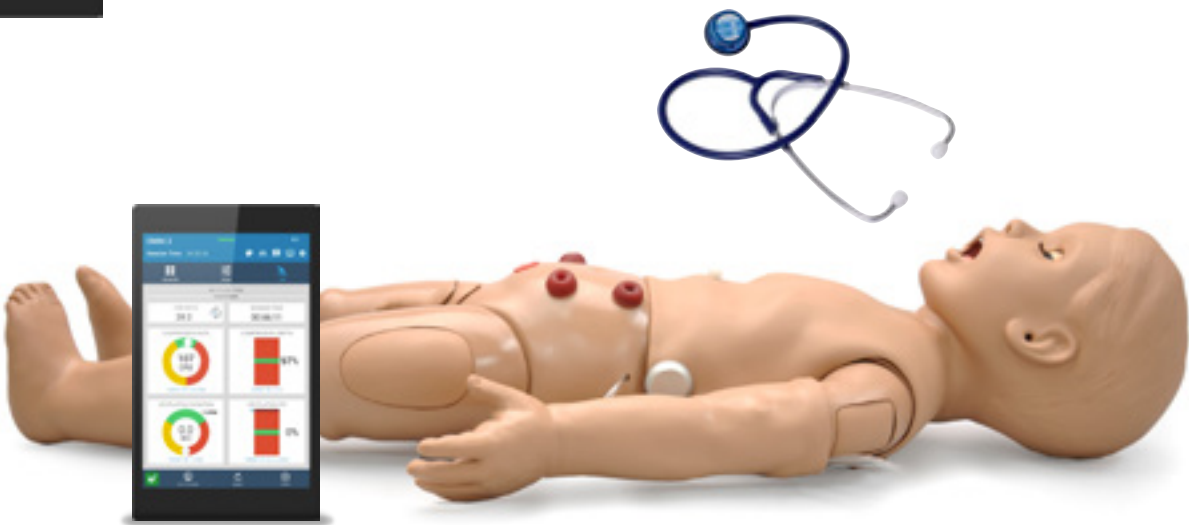
MODELS, OPTIONS, AND ACCESSORIES

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	N/A
IV training Arm	Included	Included	Included	Included	S110.803R.IV
I/O Access with bones	Included	Included	Included	Included	S110.702
Stoma care	Included	Included	-	-	S110.703
Chest decompression and drainage	S117.711	S117.711	-	-	S110.711
Heart and Lung Sounds Kit	S117.848	S117.848	S115.848	S115.848	S110.848

Skin tones 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

Premie HAL® S108.100 | *Preterm Newborn Skills Trainer*

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, PRE-TERM 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

Skin tones available at no extra charge ● ● ●

PACKAGE CONTENTS:

- 24-week preterm neonate
- IV bag, stand, and tubing
- Filling kit
- Drainage kit
- Scalp IV inserts
- Squeeze bulb with tubing kit
- Navel insert
- Umbilical cords
- Replacement left IV arm
- Baby blanket
- Diaper
- Mineral oil lubricant
- Concentrated blood
- Medical tape
- Canvas carrying bag

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

Gaumard Virtual Patient Monitor | *Patient Monitor Skills Trainer*

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 to provide participants with a data-rich simulation experience to enhance critical thinking and clinical decision-making.

GENERAL OMNI® 2 FEATURES

- 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, SpO2, EtCO2, 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

VIRTUAL PATIENT MONITOR FEATURES

- Customizable screen layout mimics standard patient monitors

- Display 15+ parameters including HR, ABP, SpO2, RR, EtCO2, 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 VIRTUAL INSTRUMENTS® BEDSIDE PATIENT MONITOR SKILLS TRAINER

AVAILABLE Q2 2018

Package includes:

- All-in-one Touchscreen PC
- OMNI 2 Tablet
- Virtual Patient™ Activation Code for OMNI® 2
- Accessories

GAUMARD VIRTUAL INSTRUMENTS® MOBILE PATIENT MONITOR SKILLS TRAINER

AVAILABLE Q2 2018

Package includes:

- 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
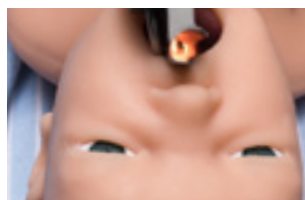
Anatomically accurate epiglottis, glottis, trachea

IV sites support bolus, infusion, and sampling

Umbilical access, sampling, and continuous infusion

Lumbar puncture needle insertion and sampling

FEATURES

GENERAL

- Full-term neonate 8 lb, 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

PACKAGE CONTENTS

- Full-term newborn
- Accessories: male and female genitalia, stomas, umbilical cords, chest tube sites, IO bones, heel stick sites, lubricant, IV filling kit

NEWBORN PEDI®

S109.PK

Skin tones available at no extra charge ● ● ●

NEWBORN MULTIPURPOSE PATIENT

Newborn Multi. Patient with OMNI 2

S107.250.PK

Newborn Multi. Patient with OMNI 1

S107.PK

Skin tones available at no extra charge

NEWBORN PEDI® SIMULATOR

Newborn PEDI with OMNI 2

S105.250.PK

Newborn PEDI

S105.PK

Skin tones available at no extra charge

SUSIE® AND SIMON®
Newborn Advanced Care Simulator

S100.PK

Skin tones available at no extra charge

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

Skin tones available at no extra charge

PREMIE™ BLUE SIMULATOR
with Smartskin™ Technology

PREMIE BLUE with OMNI 2

S108.250.PK

PREMIE BLUE

S108.PK

Skin tones available at no extra charge

NURSING CARE

SUSIE® AND SIMON® NEWBORN ADVANCED CARE SIMULATOR

S100

Skin tones available at no extra charge ● ● ●

Our PEDI® newborn looks just like a 0-8 week old baby. The chubby face and body with beautifully detailed tiny, soft hands and feet make you want to hold and care for this addition to our family of pediatric and adult advanced patient care simulators.

- 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
- T-shirt and diapers
- Soft carrying bag
- Instruction manual

Realistic Eyes

NG and OG Exercises

Heel Stick and Finger Prick Technique

Ear Canal

Realistic Hands, Feet, Fingers and Toes

Male and Female Catheterization

NURSING CARE

NASAL INTUBATION

NG exercises to demonstrate tube feeding and gastric suction.

CATHETERIZATION

Male and female catheterization. Removable internal tanks.
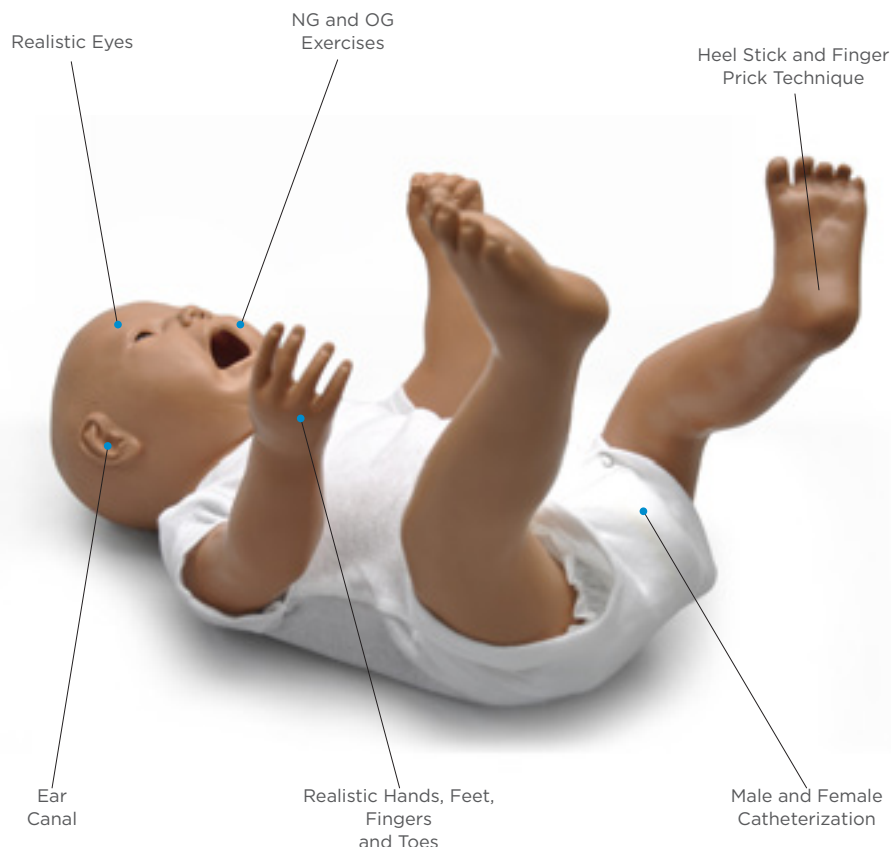
NEWBORN TRAINING ARM

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 NEONATE | *Blue Neonates*

PEDI® BLUE NEONATAL SIMULATOR

Skin tones available at no extra charge

PEDI BLUE with SmartSkin™ and OMNI 2

S320.100.250.PK

PEDI BLUE with
Newborn HAL® body and OMNI 2
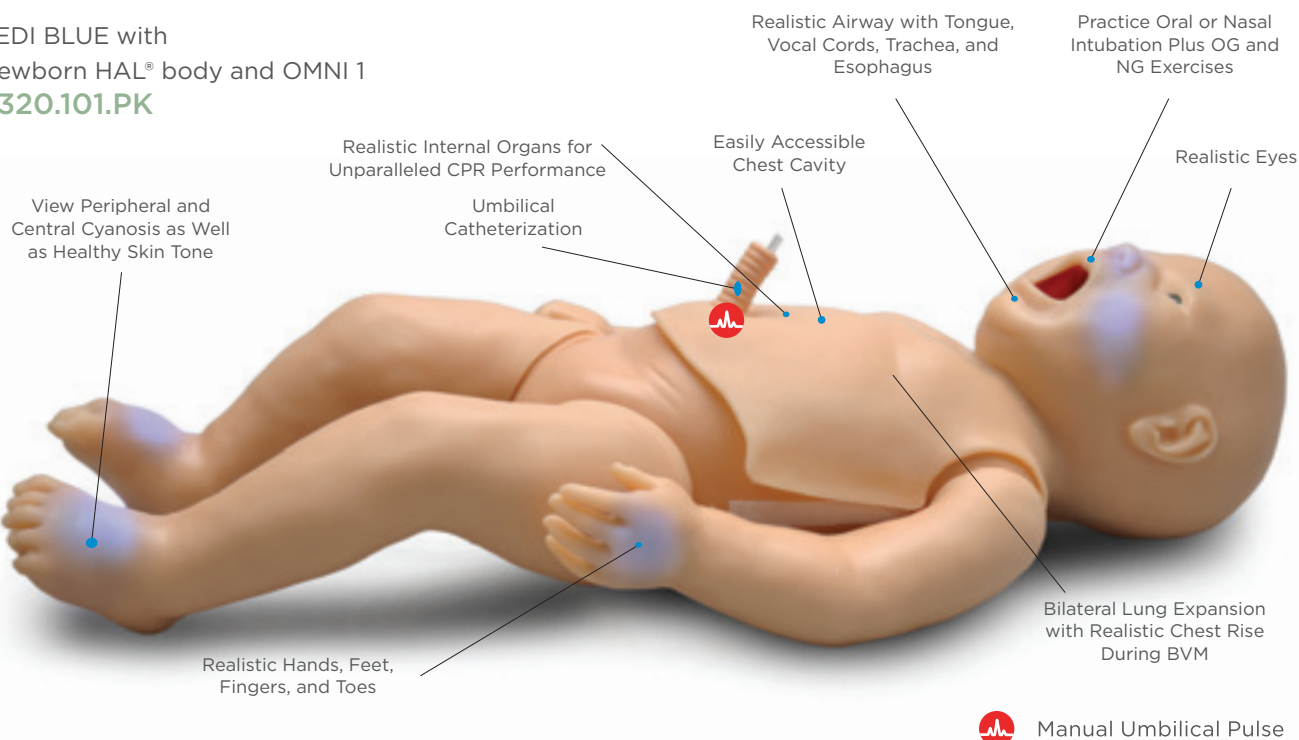**S320.101.250.PK**

PEDI BLUE with SmartSkin™ and OMNI 1

S320.100.PK

PEDI BLUE with
Newborn HAL® body and OMNI 1
S320.101.PK

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.

Realistic Airway with Tongue, Vocal Cords, Trachea, and Esophagus

Practice Oral or Nasal Intubation Plus OG and NG Exercises

Realistic Internal Organs for Unparalleled CPR Performance

Easily Accessible Chest Cavity

Realistic Eyes

View Peripheral and Central Cyanosis as Well as Healthy Skin Tone

Umbilical Catheterization

Bilateral Lung Expansion with Realistic Chest Rise During BVM

Realistic Hands, Feet, Fingers, and Toes

Manual Umbilical Pulse

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.

PEDI® BLUE NEONATE | *Blue Neonates*

FEATURES

- Full-size articulating neonate
- Realistic airway with tongue, vocal cords, trachea, and esophagus for airway management exercises
- Internal organs
- 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

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

Learn more about the new OMNI 2 on page 258 and OMNI 1 on page 262.

SIMULATOR COMPONENTS

- PEDI Blue neonate
- Omni®2 Controller for managing cyanosis and monitoring CPR
- International power supply 100-240 VAC
- Connecting cables
- Instruction manual
- Carrying bag

The S320.101 has the same features as the S320.100 but with the Newborn HAL™ body

S320.100:   Patent 6,503,087

IO LEG OPTION

S320.100.702R

Skin tones available at no extra charge ● ● ●

TRAINING ARM OPTION

S320.100.803R.IV

PACKAGE PRICE WITH ALL OPTIONS

Package Price includes IO Leg and Training Arm

PEDI BLUE with SmartSkin™ and OMNI 2

S320.200.250.PK
Skin tones available at no extra charge ● ● ●

PEDI BLUE with SmartSkin™ and OMNI 1

S320.200.PK
Skin tones available at no extra charge ● ● ●

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.
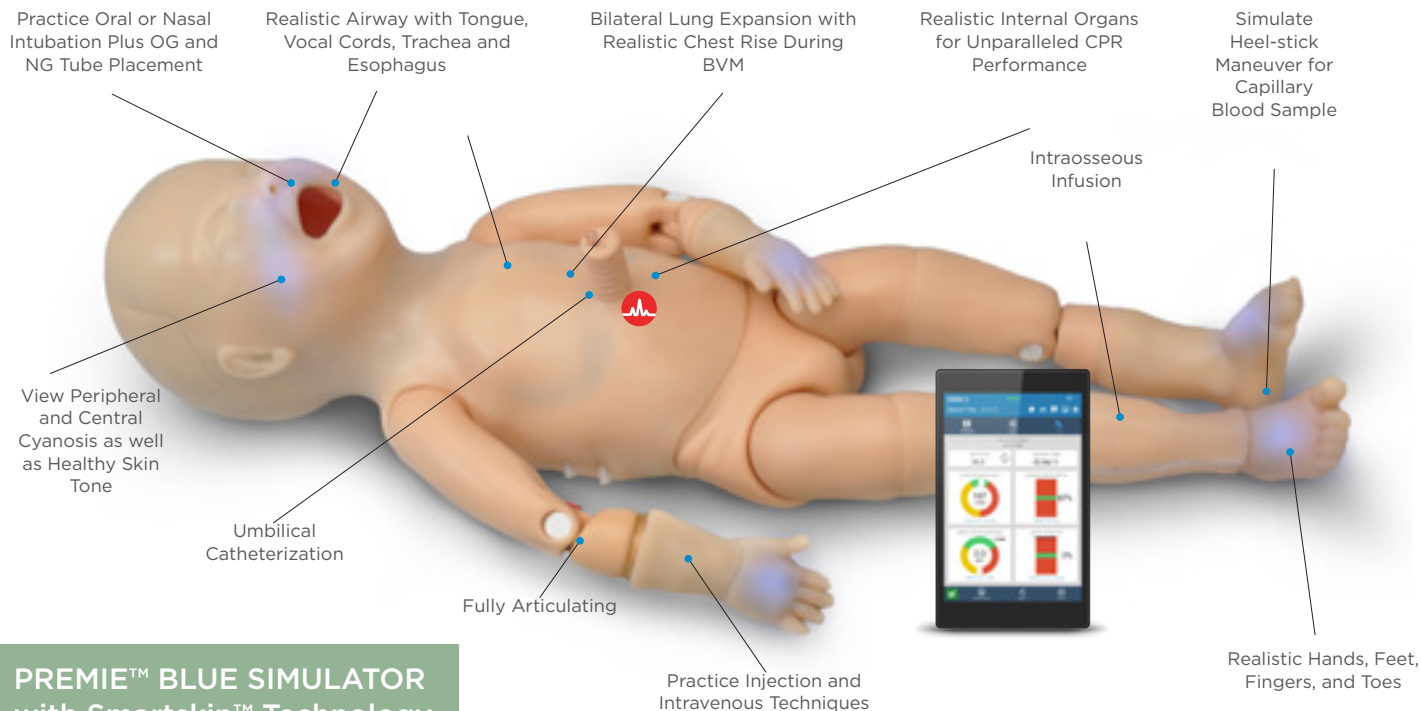
UMBILICAL CATHETERIZATION

Practice umbilical catheterization by filling umbilical cord using syringe provided.

UMBILICAL PULSES

Simulate pulsatile element with use of hand-held squeeze bulb.

Practice Oral or Nasal Intubation Plus OG and NG Tube Placement

Realistic Airway with Tongue, Vocal Cords, Trachea and Esophagus

Bilateral Lung Expansion with Realistic Chest Rise During BVM

Realistic Internal Organs for Unparalleled CPR Performance

Simulate Heel-stick Maneuver for Capillary Blood Sample

Intraosseous Infusion

View Peripheral and Central Cyanosis as well as Healthy Skin Tone

Umbilical Catheterization

Fully Articulating

Practice Injection and Intravenous Techniques

Realistic Hands, Feet, Fingers, and Toes

Manual Umbilical Pulse

PREMIE™ BLUE SIMULATOR with Smartskin™ Technology

PREMIE BLUE with OMNI 2

S108.250.PK

Skin tones available at no extra charge

PREMIE BLUE with OMNI 1

S108.PK

Skin tones available at no extra charge

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.

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 to healthy color with proper CPR.

PEDI® BLUE NEONATE | *Comparison*

Features	S108 Premie	S107 Newborn	S105 Newborn	S320.100 Newborn	S320.200 Newborn
Head tilt	•	•	•	•	•
Programmable cyanosis	•	–	–	•	•
Oral/Nasal endotracheal intubation	•	•	•	•	•
Oral/Nasal nasogastric intubation	•	•	•	•	•
Intraosseous infusion	•	•	•	○	•
IV training arm	•	•	•	○	•
Femoral vein	–	•	•	–	•
Manual palpable pulses	•	•	•	○	•
Radial	–	•	•	○	•
Femoral	–	•	•	○	•
Brachial	–	•	•	○	•
Posterior tibia	–	•	•	○	•
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	•	○	○	•	•
Lavage/gavage	–	•	•	–	•
Umbilical cord catheterization	•	•	•	•	•
G-tube placement	–	•	–	–	–
Enema administration	–	•	–	–	–
Placement of rectal suppositories	–	–	–	–	–
Intramuscular injection sites	–	–	•	–	–
Practice suctioning exercises	•	•	•	•	•

Skin tones available at no extra charge ● ● ●   • Standard   ○ Optional Add-On/Accessory

NURSING CARE

MODELS, OPTIONS, AND ACCESSORIES

Model	S108.250.PK	S108.PK	S107.250.PK	S107.PK	S105.250	S105.PK	S320.100.250. PK	S320.100.PK
Upgrades								
OMNI Real-Time CPR feedback	OMIN 2	OMIN 1	OMIN 2	OMIN 1 S107.184	OMIN 2	OMIN 1 S105.184	OMIN 2	OMIN 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		–	

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

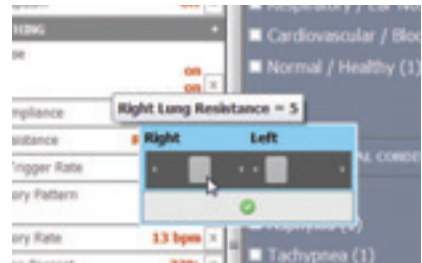# HAL® S1030 | *Dynamic Airway and Lung Compliance Simulator*

New and improved HAL® technology for superior airway and lung compliance simulation.
Great for respiratory technology programs!

Use our Scenarios,
Modify them or
Create your Own

BVM, Intubate
or Mechanically
Ventilate

Program Tongue Edema,
Pharyngeal-Swelling and
Laryngospasm

Programmable Lung
Compliance

Independently Control
Right and Left Side
Airway Resistances

Includes Laptop with
15in Display

Assess C02 Output with End
Tidal Detector or Capnography

Capable of Holding PEEP,
5-20 cm H20
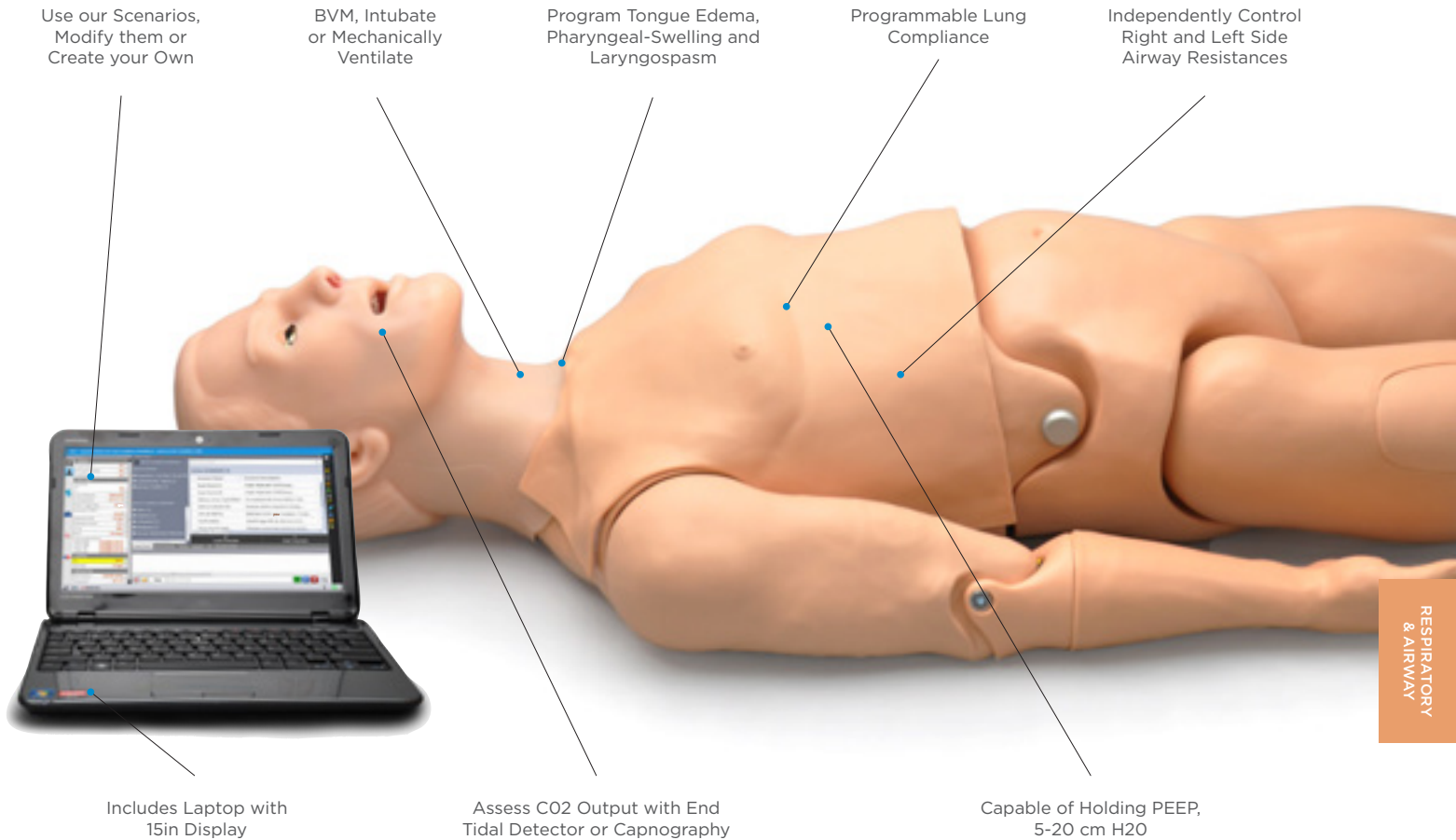
Receive real-time feedback from real
mechanical ventilator
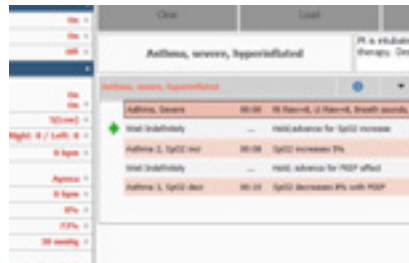
Create scenarios using our proven,
easy to use, HAL® software

Change lung resistance/compliance
"on-the-fly" and see results on a real
ventilator on the laptop

Status Window Shows HAL's
Current Physiologic State

Preprogrammed Scenarios Included
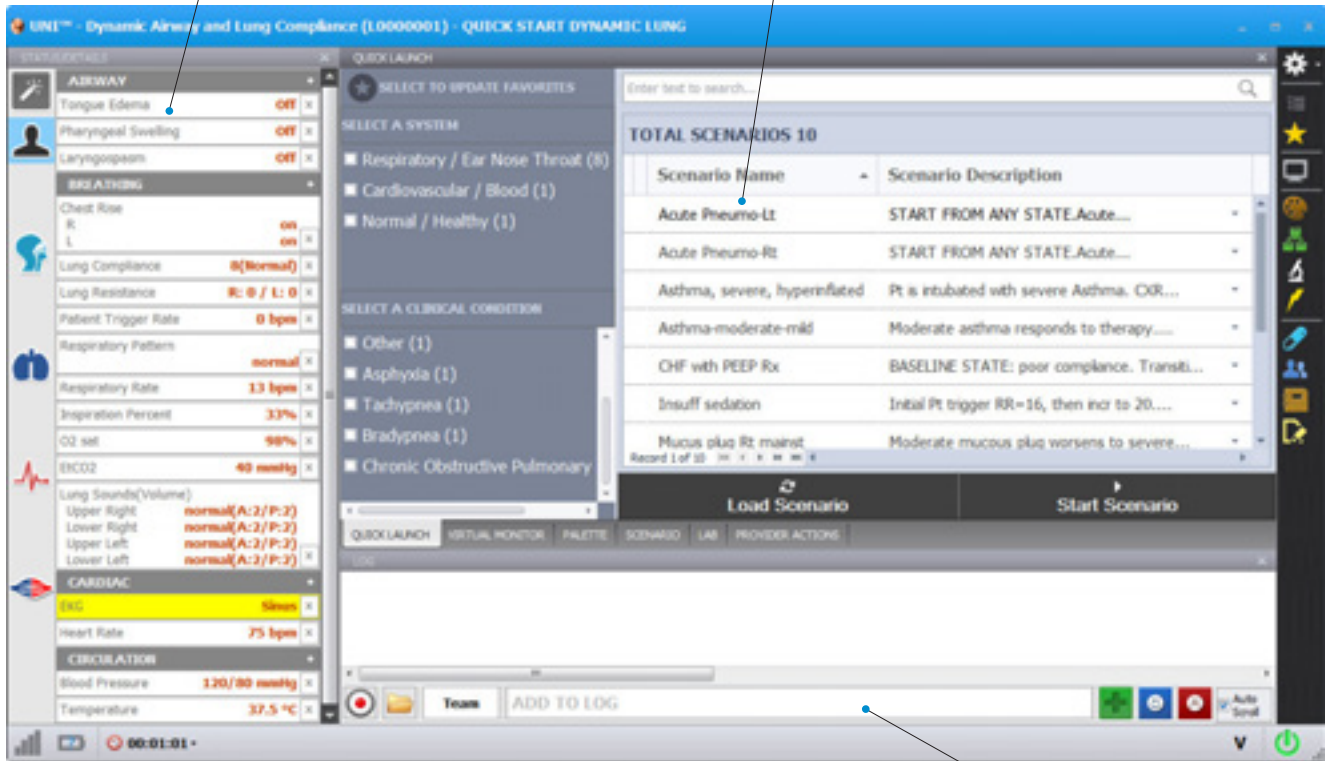
Automatic Event Log Detects
Intubation and Ventilation

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
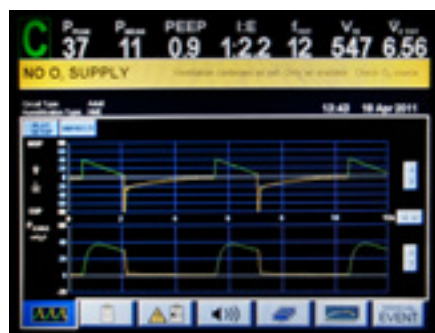
NORMAL COMPLIANCE LOOP
Compliance 7

HAL® S1030 | *Dynamic Airway and Lung Compliance Simulator*

HAL® S1030

S1030.PK

Patented; other patents pending

Skin tones available at no extra charge ● ● ●

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 resistances
- Use in conventional ventilation modes
- Capable of assisting the ventilator 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 management of anatomic and pathologic conditions
- Ten levels of static compliance, 15-50 ml/cm H20
- Independently controlled airway resistances
- Capable of assisting the ventilator at variable respiratory rates
- Capable of holding PEEP, 5-20 cm H_2O
- 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

INCLUDES

- Laptop with 15in display
- Carrying case with rollers
- Instruction Manual

OTHER

- USB connections
- Int. power supply 100-240 VAC

SEVERE FIBROSIS
Compliance 0
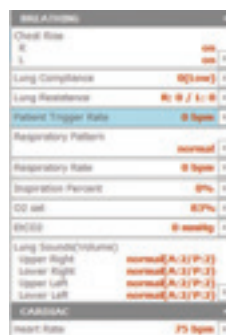
LOW COMPLIANCE UNI CONTROLS
Compliance 0

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

HAL® SKILLS TRAINERS | *Adult Airway Management*

A family of skills trainers for adult airway management, CPR and auscultation training.

HAL® CPR+D TRAINER WITH OMNI®2

S315.600.PK

Skin tones available at no extra charge

HAL® CPR+D TRAINER

S315.500.M2.PK

Skin tones available at no extra charge

HAL® ADULT MULTIPURPOSE AIRWAY AND CPR TRAINER

S315.400.M2.PK

Skin tones available at no extra charge

HAL® AIRWAY AND CPR TRAINER WITH H&L SOUNDS

S315.300.M2.PK
S315.300.M2.250.PK

Available with OMNI 2

Skin tones available at no extra charge

HAL® ADULT MULTIPURPOSE AIRWAY & CPR TRAINER

S315.100.M2.PK
S315.100.250.PK

Available with OMNI 2

Skin tones available at no extra charge

HAL® AIRWAY & CPR TRAINER

S315.M2.PK
S315.M2.250.PK

Available with OMNI 2

*Product shown with optional OMNI 2: Simulated Image

Skin tones available at no extra charge

HAL® S315.600 | *CPR+D Skills Trainer with 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 return of spontaneous circulation. The HAL is the portable, all-in-one training solution for every basic life support training need.

Monitor CPR quality in real time with the new OMNI 2. Learn more on page 258.

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
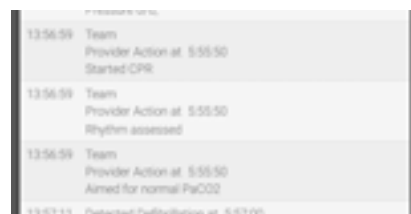
Automatically detect and record events for easy debriefing

CALL US TOLL-FREE AT 800.882.6655

HAL® S315.600 | *CPR+D Skills Trainer with OMNI® 2*

DEBRIEF, LEARN, & IMPROVE

Save, print, and debrief performance reports to remediate, then repeat complex scenarios to prepare for real-world emergencies.

AIRWAY AND BREATHING

- Practice nasal and oral intubation (ETT, Supraglottic Airway, King LT®) with realistic tongue, vocal cords, and trachea
- 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

CARDIAC & 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

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 adult CPR guidelines
- Built-in resuscitation algorithm checklists for tracking individual and team actions

OMNI 2 FEATURES

- Built-in wireless connectivity with range up to 30 ft.
- Wireless interface with 8" touchscreen display
- Optimized vital sign controls for on-the-fly operation
- Built-in library with 20+ cardiac rhythms and options
- Compatibility with optional virtual vital sign 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 eCPR performance reports for debriefing and archiving

CPR+D SKILLS TRAINER WITH OMNI® 2

S315.600.PK

Skin tones available at no extra charge ● ● ●

PACKAGE CONTENTS

- HAL S315.600 Skills Trainer
- OMNI 2 Wireless Control Interface
- Carrying Case
- Operating Guide
- A/C Adapter

MODIFIED PHILIPS® DEFIBRILLATOR CABLE

S315.600.126

MODIFIED PHYSIO-CONTROL® DEFIBRILLATOR CABLE

S315.600.127

MODIFIED ZOLL® DEFIBRILLATOR CABLE

S315.600.128

MOBILE PATIENT MONITOR

S315.600.002

- Portable tablet PC and Gaumard Vitals™ virtual patient monitor software license
- Simulate 20+ dynamic numerical parameters and waveforms
- Built-in virtual defibrillator
- Customizable interface
- Touch-screen enabled controls
- Links wirelessly to OMNI 2

HAL® S315.500 | *CPR+D Trainer*

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
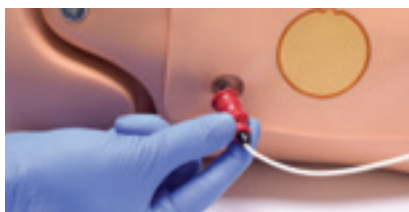
Shock directly to pad-free posts

Advanced feedback and reporting during and after the training

Easily refill the automatic breathing system for the next session

CALL US TOLL-FREE AT 800.882.6655

HAL® S315.500 | *CPR+D Trainer*

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.
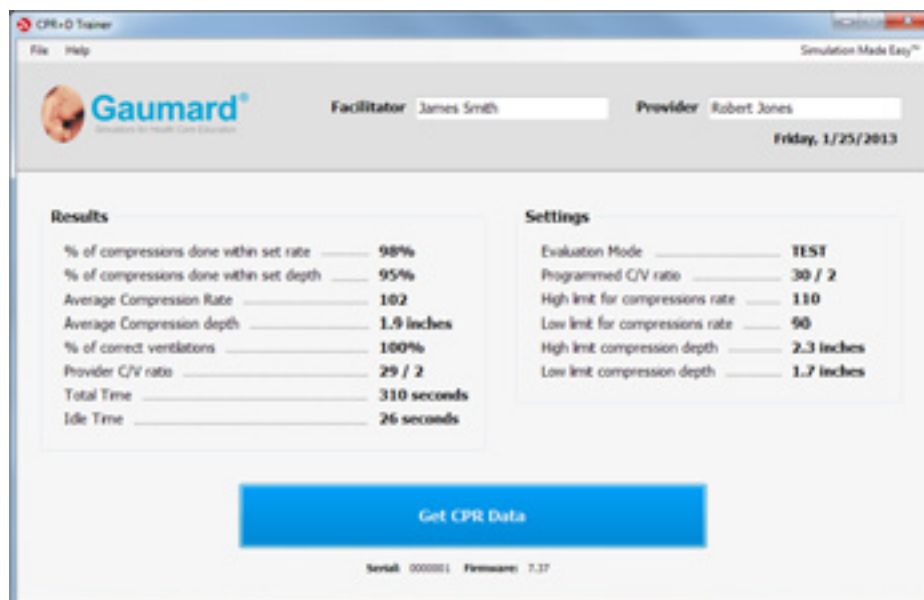
HAL® S315.500

S315.500.M2.PK

Patented; other patents pending.

Skin tones available at no extra charge ● ● ●

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

ITEMS INCLUDED

- Full-size adult male head and torso
- Hand-held controller with 10ft cable
- Carrying bag
- Operating guide

HAL® S315.400 | *Advanced Multipurpose Airway Trainer*

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

HAL® S315.400 | *Advanced Multipurpose Airway Trainer*

Gastric distention

Realistic chest compression and recoil

Oral and nasal intubation; tongue edema

Open and close eyes; one pupil is dilated

Soft skin: head tilt/chin lift and jaw thrust

Laryngospasm and Pharyngeal Swelling

Bilateral chest drainage

Right mainstem intubation

Bilateral needle decompression
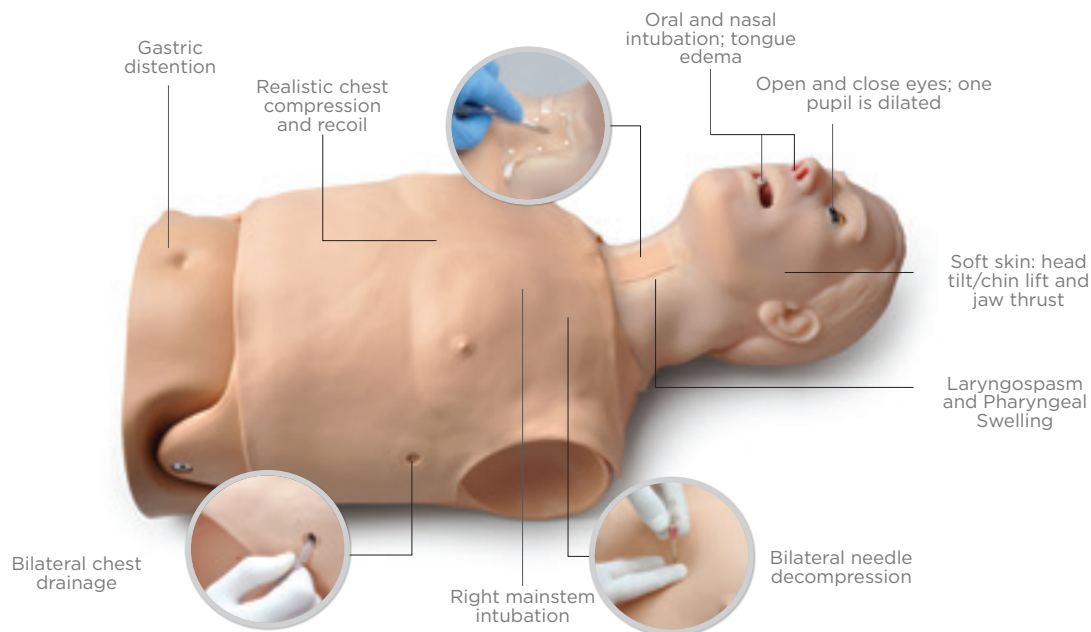
HAL® S315.400

S315.400.M2.PK

Patent Pending

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 produces 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

ITEMS INCLUDED

- Full-size adult male head and torso
- Ventilation trachea insert
- Mini hand pump
- Surgical trachea kit
  - » 5 Surgical trachea inserts
  - » 10 Trachea skin covers
  - » 10 Simulated cricothyroid membranes
- Replaceable needle pneumo. sites
- Mineral oil lubricant
- Talcum powder
- Instructions manual
- Soft carrying bag

CONSUMABLE ITEMS

MINERAL OIL

S315.400.181

10 SIMULATED CRICOID MEMBRANES

S315.400.M2.990

SET OF 10 CRICO/TRACHEA SKIN COVERS

S315.400.M2.923

Skin tones available at no extra charge ● ● ●

SET OF 5 TRACHEAL INSERTS

S315.400.M2.984

SET OF 5 NEEDLE DECOMPRESSION INSERTS

S315.400.M2.926

CHEST SKIN

S315.400.M2.712

Skin tones available at no extra charge ● ● ●

RESPIRATORY & AIRWAY

HAL® S315, S315.100, and S315.300 | *Model Comparison*

HAL® S315 AIRWAY AND CPR TRAINER	HAL® S315.100 MULTI-PURPOSE AIRWAY AND CPR TRAINER	HAL® S315.300 AIRWAY, CPR AND AUSCULTATION TRAINER

Skin tones available at no extra charge

HAL S315 with OMNI® 2
S315.M2.250.PK

HAL S315 Basic
S315.M2.PK

OMNI 1 upgrade for basic model
S315.M2.184

Upgrade to full body Configuration
S315.M2.705

Skin tones available at no extra charge

HAL S315.100 with OMNI® 2
S315.100.250.PK

HAL S315.100 Basic
S315.100.M2.PK

OMNI 1 upgrade for basic model
S315.M2.184

Upgrade to full body form factor
S315.100.M2.705

Skin tones available at no extra charge

HAL S315.300 with OMNI® 2
S315.300.M2.250.PK

HAL S315.300 Basic
S315.300.M2.PK

OMNI 1 upgrade for basic model
S315.300.M2.184

Upgrade to full body form factor
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®	•	•	•	•	•	•
Difficult airway — Tongue edema	-	-	-	•	-	-
Difficult airway — Laryngospasm	-	•	-	•	-	-
Difficult airway — 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	•	•	•	•	•	•

Skin tones available at no extra charge

• Standard   o Optional Add-On/Accessory

RESPIRATORY & AIRWAY

5 YEAR PEDI® AIRWAY TRAINER

S314.PK

Skin tones available at no extra charge ● ● ●

1 YEAR PEDI® AIRWAY TRAINER

S312.PK

Skin tones available at no extra charge ● ● ●

NEWBORN PEDI® AIRWAY TRAINER

S320.PK

Skin tones available at no extra charge ● ● ●

CALL US TOLL-FREE AT 800.882.6655

Features	S314 Five Year Airway	S312 One Year Airway	S320 Newborn PEDI Airway
Full Body	•	•	•
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

	S314	S312	S320
Site-specific heart and lung sound trainer	S314.848	S312.848	-
Chest decompression and drainage	S314.711	S312.711	S320.711

Skin tones available at no extra charge ● ● ●

● Standard   ○ Optional Add-On/Accessory

RESPIRATORY & AIRWAY

THE SIMON® ADULT CPR SIMULATOR

Simon with OMNI 2 (Full Body)

S311.250.PK

Simon with OMNI 1 (Full Body)

S311.PK

Skin tones available at no extra charge ● ● ●

Simon with OMNI 2 (Torso)

S309.250.PK

Simon with OMNI 1 (Torso)

S309.PK

Skin tones available at no extra charge ● ● ●

Simon Basic (Torso)

S308.PK

Simon Basic (Full Body)

S310.PK

Skin tones available at no extra charge ● ● ●

Realistic Chest Rise During Ventilations

Airway Blocked when Head is Forward

Femoral Venous Site

Realistic and Easily Accessible Chest Cavity

Eyes Open and Close; One Pupil is Dilated

Disposable Airway

OMNI 2® eCPR real-time feedback

Bends at Waist

IM Sites

Realistic Hands, Fingers, and Toes
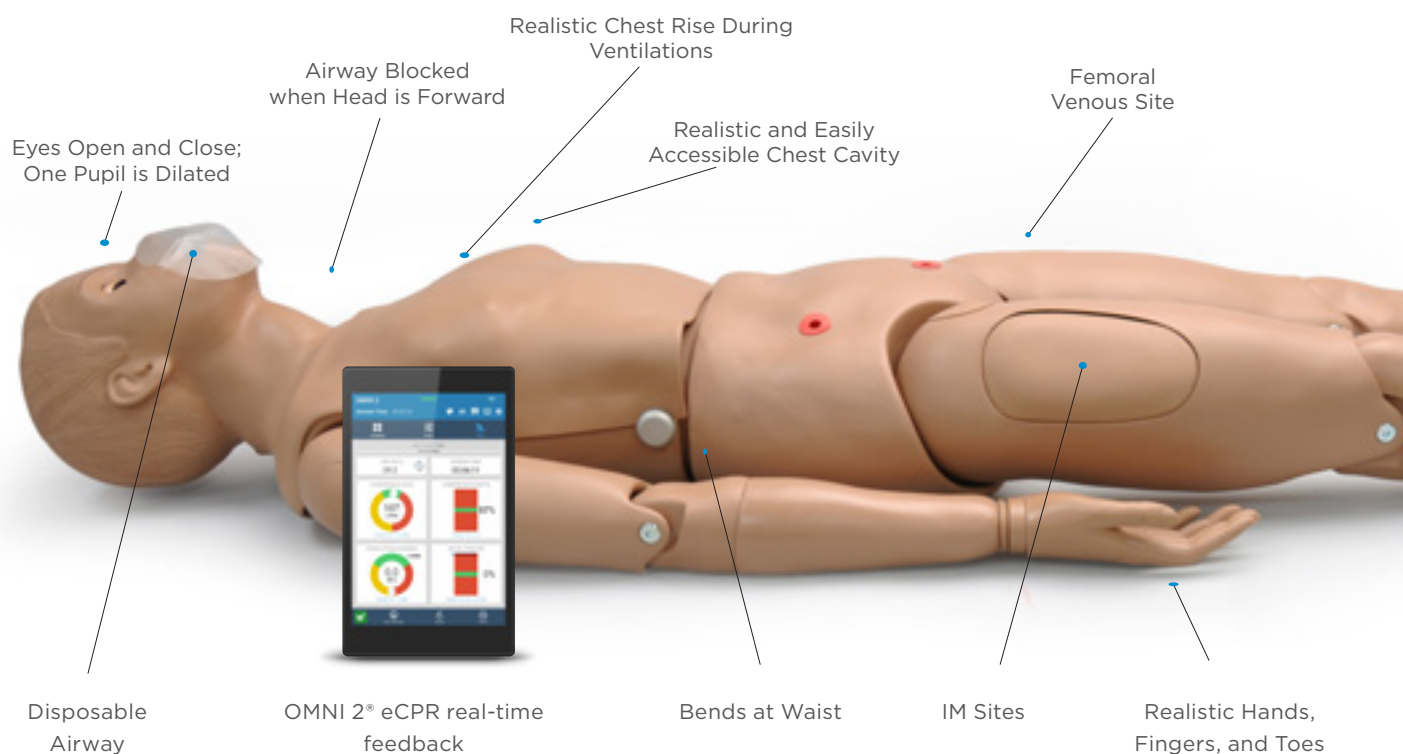
♨ Bilateral Carotid, and Right Femoral Pulses

Fully articulating head, neck, and jaw, permitting head/tilt, chin lift, jaw thrust, and neck extension into the "sniffing" position

Realistic chest rise during ventilations

Monitor CPR quality metrics in real-time with OMNI, included with S309 and S311 models

BASIC LIFE SUPPORT | *CPR Care Simulators*

CPR SIMON® BLS

S308 Torso
S309 Torso
S310 Full Body
S311 Full Body

Quality CPR simulators designed to operate for years. Strong, sturdy construction with full-size, realistic landmarks and one piece disposable airways.

FEATURES FOR S311

- 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
- Easily accessible chest cavity with ribcage, lungs, and heart for realism and practice of the Heimlich maneuver
- 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

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

Learn more about the new OMNI 2 on page 258.

OPTIONS

PACKAGE OF 10 ONE-PIECE DISPOSABLE AIRWAYS

S308.841

PACKAGE OF 100 ONE-PIECE DISPOSABLE AIRWAYS

S308.842

Select System	308	309	310	311
Feature:				
CPR	●	●	●	●
Disposable Airway	●	●	●	●
Carotid Pulse Sites	●	●	●	●
Omni Code Blue Pack		●		●
Arms and Legs			●	●
Femoral Venous Site			●	●
IM Sites			●	●

ADVANCED INTRAVENOUS TRAINING ARM WITH SUBTLE VENOUS NETWORK

S310.803R.IV
Specify right or left arm

OMNI BLOOD PRESSURE ARM

S310.989 For S310

S311.989 For S311

Skin tones available at no extra charge ● ● ●

CARRYING BAG

S311.807

Ten totally disposable airways to practice hygienic mouth-to-mouth ventilation

Multiple pulse points: carotid and femoral arterial pulse points

Realistic chest compression and recoil

FIVE YEAR CPR CARE SIMULATOR

Five Year with OMNI 2
S154.250.PK

Five Year with OMNI 1
S154.PK

Five Year with OMNI 2
S152.250.PK

Five Year with OMNI 1
S152.PK

Five Year Basic
S153.PK

Five Year Basic
S151.PK

Skin tones available at no extra charge

Skin tones available at no extra charge

Skin tones available at no extra charge

Airway Blocked when Head is Forward

Realistic Chest Cavity Provides Anatomic Landmark as well as Chest Compliance

Eyes Open and Close; One Pupil is Dilated

Realistic Chest Rise During Ventilations

Femoral Venous Site

Disposable Airway

OMNI 2® Real-time eCPR feedback

Intravenous Training Arm

IM Sites

Realistic Hands, Fingers, and Toes

Bilateral Carotid, Right Brachial, and Right Femoral Pulses
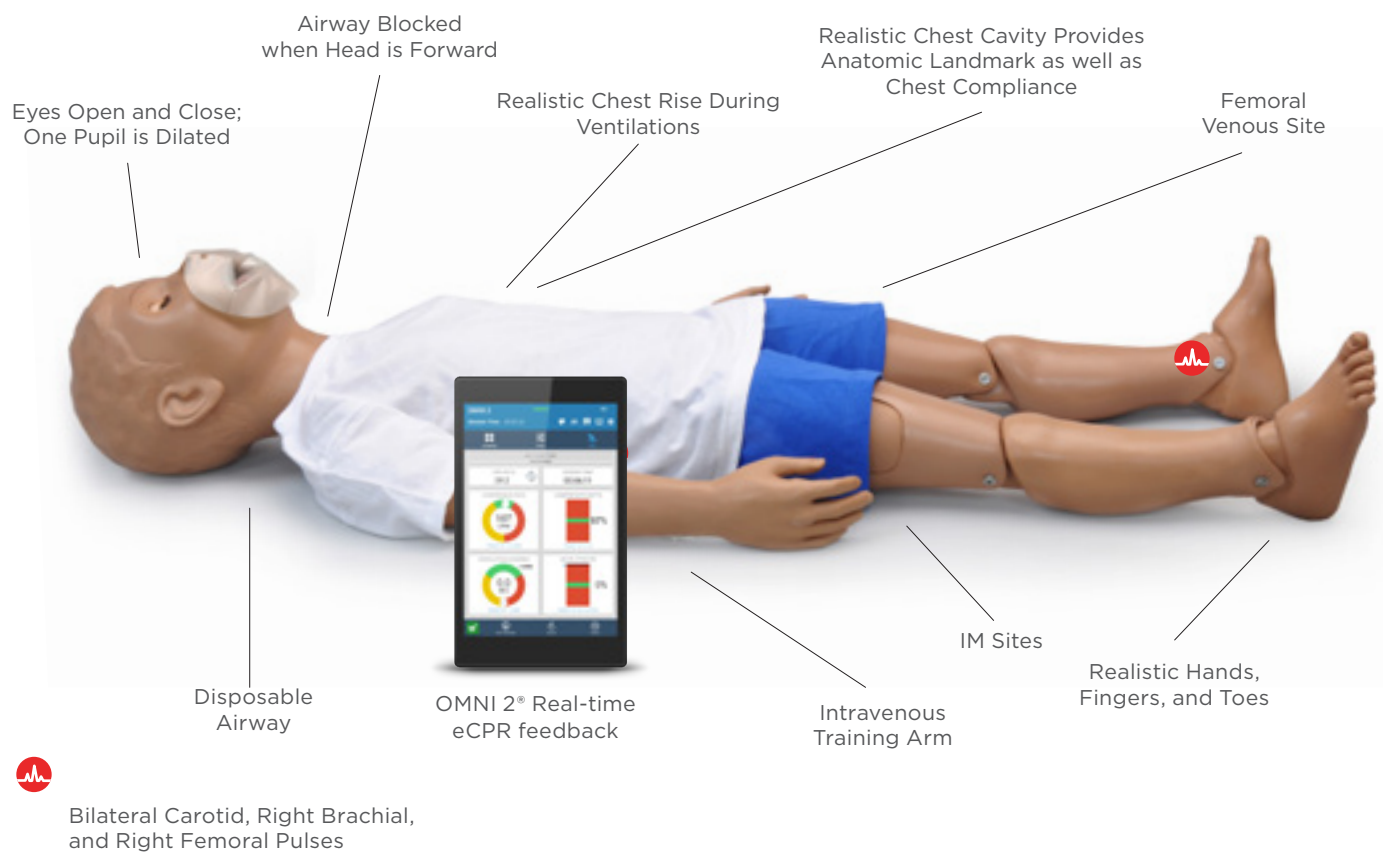
Multiple pulse points: carotid, femoral, and brachial arterial pulse points

Realistic chest rise during ventilations

Monitor CPR quality metrics in real-time with OMNI, included with S152 and S154 models

BASIC LIFE SUPPORT

BASIC LIFE SUPPORT | *CPR Care Simulators*

FIVE YEAR CPR AND TRAUMA CARE SIMULATOR

S151	Full Body
S152	Full Body
S153	Full Body
S154	Full Body

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
- Easily accessible chest cavity with molded ribcage, lungs, and heart
- 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 Waste

- 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

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

Learn more about the new OMNI 2 on page 258.

Select System	151	152	153	154
Feature:				
CPR	●	●	●	●
Disposable Airway	●	●	●	●
Arterial Pulse Sites	●	●	●	●
Omni Code Blue Pack	●			●
Intraosseous Access			●	●
Intravenous Arm & Leg			●	●

OPTIONS

TRAINING ARM AND HAND FOR INTRAVENOUS, INTRAMUSCULAR, AND SUBCUTANEOUS ACCESS

S150.803R.IV
With interchangeable hand for finger prick practice

Skin tones available at no extra charge ● ● ●

INTRAOSSEOUS OPTION

S150.702

Skin tones available at no extra charge ● ● ●

Ten disposable airways to practice hygienic mouth-to-mouth ventilation

Intraosseous access
* standard on S153, S154

Training arm and hand for intravenous, intramuscular, and subcutaneous access
* standard on S153, S154

ONE YEAR CPR CARE SIMULATOR

One Year with OMNI 2

S114.250.PK

One Year with OMNI 1

S114.PK

Skin tones available at no extra charge ● ● ●

One Year with OMNI 2

S112.250.PK

One Year with OMNI 1

S112.PK

Skin tones available at no extra charge ● ● ●

One Year Basic

S113.PK

One Year Basic

S111.PK

Skin tones available at no extra charge ● ● ●

Eyes Open and Close;
One Pupil is Dilated

Airway Blocked
when Head is Forward

Realistic Chest Rise
During Ventilations

Realistic Chest Cavity
Provides Anatomic Landmark
as well as Chest Compliance

Femoral
Intravenous Site

Realistic
Hands, Fingers,
and Toes

Ear Canal

Disposable
Airway

OMNI 2® Real-time
eCPR feedback

IM Sites

Intraosseous
Infusion
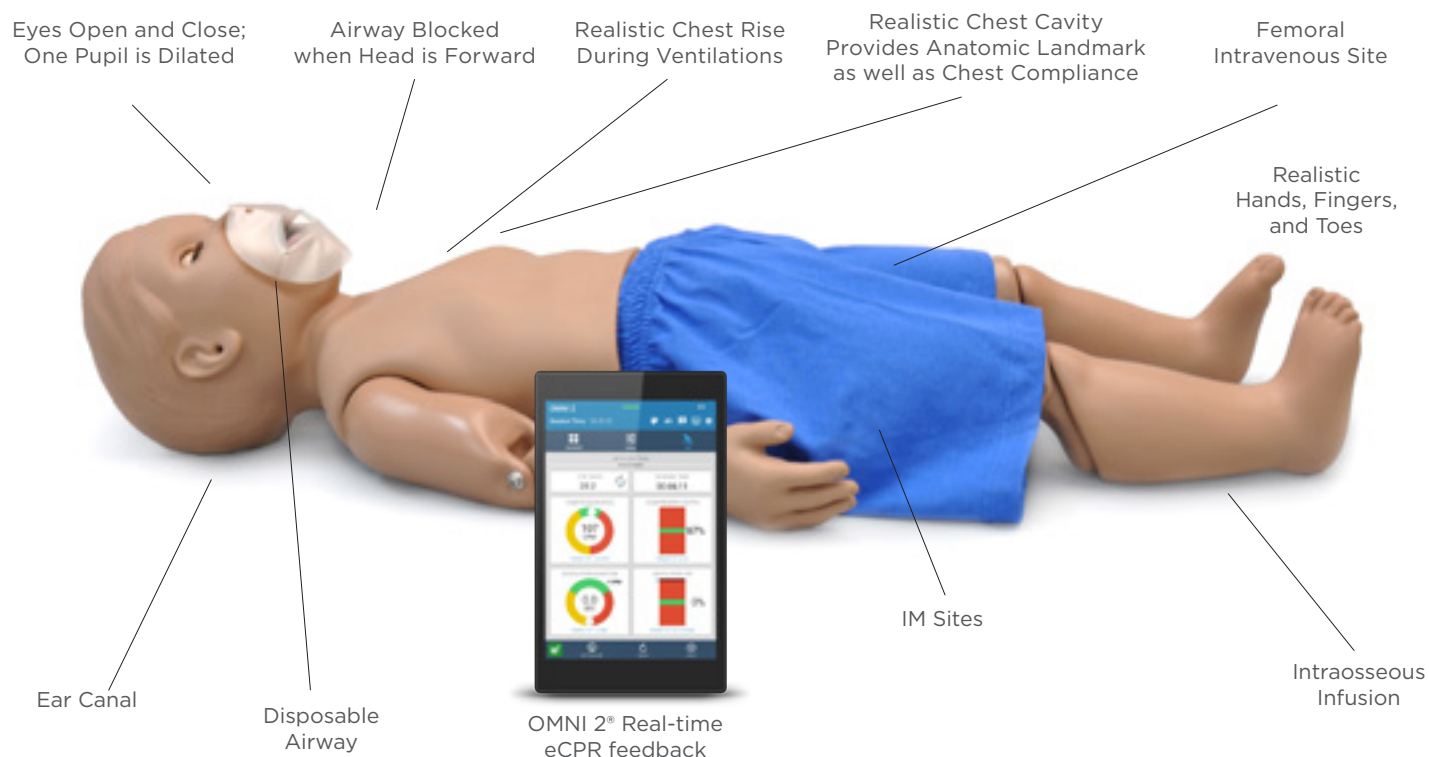
Bilateral Brachial, Right Femoral,
and Left Posterior Tibial Pulses

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, included
with S112 and S114 models

BASIC LIFE SUPPORT | *CPR Care Simulators*

ONE YEAR CPR AND TRAUMA CARE SIMULATOR

S111	Full Body
S112	Full Body
S113	Full Body
S114	Full Body

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

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

Learn more about the new OMNI 2 on page 258.

Select System	111	112	113	114
Feature:				
CPR	●	●	●	●
Disposable Airway	●	●	●	●
Arterial Pulse Sites	●	●	●	●
Omni Code Blue Pack		●		●
Intraosseous Access			●	●
Femoral Venous Site			●	●

OPTIONS

TRAINING ARM AND HAND FOR INTRAVENOUS ACCESS

S110.803R.IV

With interchangeable hand for finger prick practice. Arm also features radial and brachial arterial sites

INTRAOSSEOUS OPTION

S110.702

Realistic chest cavity provides anatomic landmark as well as chest compliances

Intraosseous infusion system with realistic tibia bones
* standard on S113, S114

Ten disposable airways to practice hygienic mouth-to-mouth ventilation

THE SUSIE® AND SIMON® NEWBORN CPR AND TRAUMA CARE SIMULATOR

SUSIE/SIMON with OMNI 2
S104.250.PK

SUSIE/SIMON with OMNI 1
S104.PK

Skin tones available at no extra charge ● ● ●

SUSIE/SIMON with OMNI 2
S102.250.PK

SUSIE/SIMON with OMNI 1
S102.PK

Skin tones available at no extra charge ● ● ●

SUSIE/SIMON Basic
S103.PK

SUSIE/SIMON Basic
S101.PK

Skin tones available at no extra charge ● ● ●

Disposable Airway

Realistic Chest Rise During Ventilations

Realistic Chest Cavity Provides Anatomic Landmark as well as Chest Compliance

Femoral Venous Site

OMNI 2® Real-time eCPR feedback

Realistic Hands, Fingers, and Toes
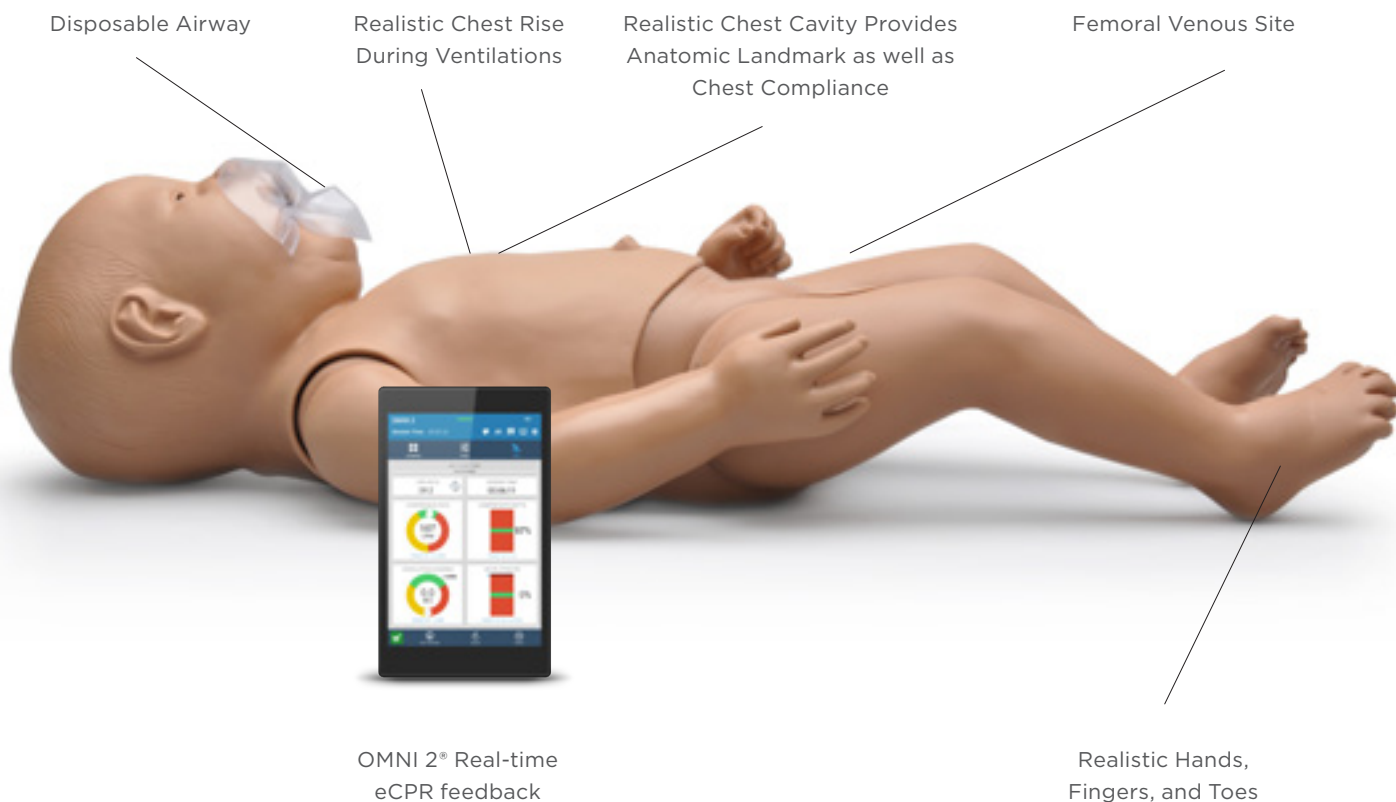
Bilateral Brachial, Right Femoral, and Left Popliteal Arterial Pulse Sites

Multiple arterial pulse sites

Realistic chest rise during ventilation

Monitor CPR quality metrics in real-time with OMNI, included with S104 and S102 models

THE SUSIE® AND SIMON® NEWBORN CPR AND TRAUMA CARE SIMULATOR

S101   Full Body
S102   Full Body
S103   Full Body
S104   Full Body

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

Learn more about the new OMNI 2 on page 258.

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
• Easily accessible chest cavity with molded ribcage, lungs, and heart
• 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

Select System	101	102	103	104
Feature:				
CPR	●	●	●	●
Disposable Airway	●	●	●	●
Arterial Pulse Sites	●	●	●	●
Omni Code Blue Pack		●	●	●
Intraosseous Access			●	●
Femoral Venous Site			●	●

Intraosseous infusion system with realistic tibia bones
* For S103, S104

Realistic chest cavity provides an atomic landmark as well as chest compliances

Ten totally disposable airways to practice hygienic mouth-to-mouth ventilation

BASIC LIFE SUPPORT

HAL® S1020

12-Lead ECG Skill Trainer

HAL® S1020 | *Emergency Care Simulator*

12 Lead ECG simulator with integrated myocardial infarction model

Defibrillate, Cardiovert or
Pace HAL's Dysrhythmia

Create and Modify Waveforms
Even on a "Point-by-Point" Basis

Includes
Laptop PC

Display and Interpret HAL's 12
Lead ECG on your Real Monitor

Includes Laptop with
15in Display

ECG Library Features
Thousands of Cardiac Rhythms
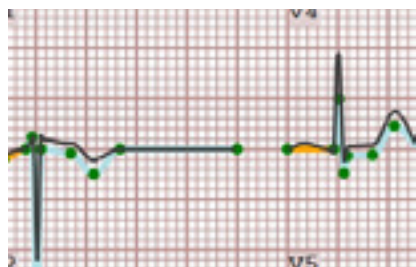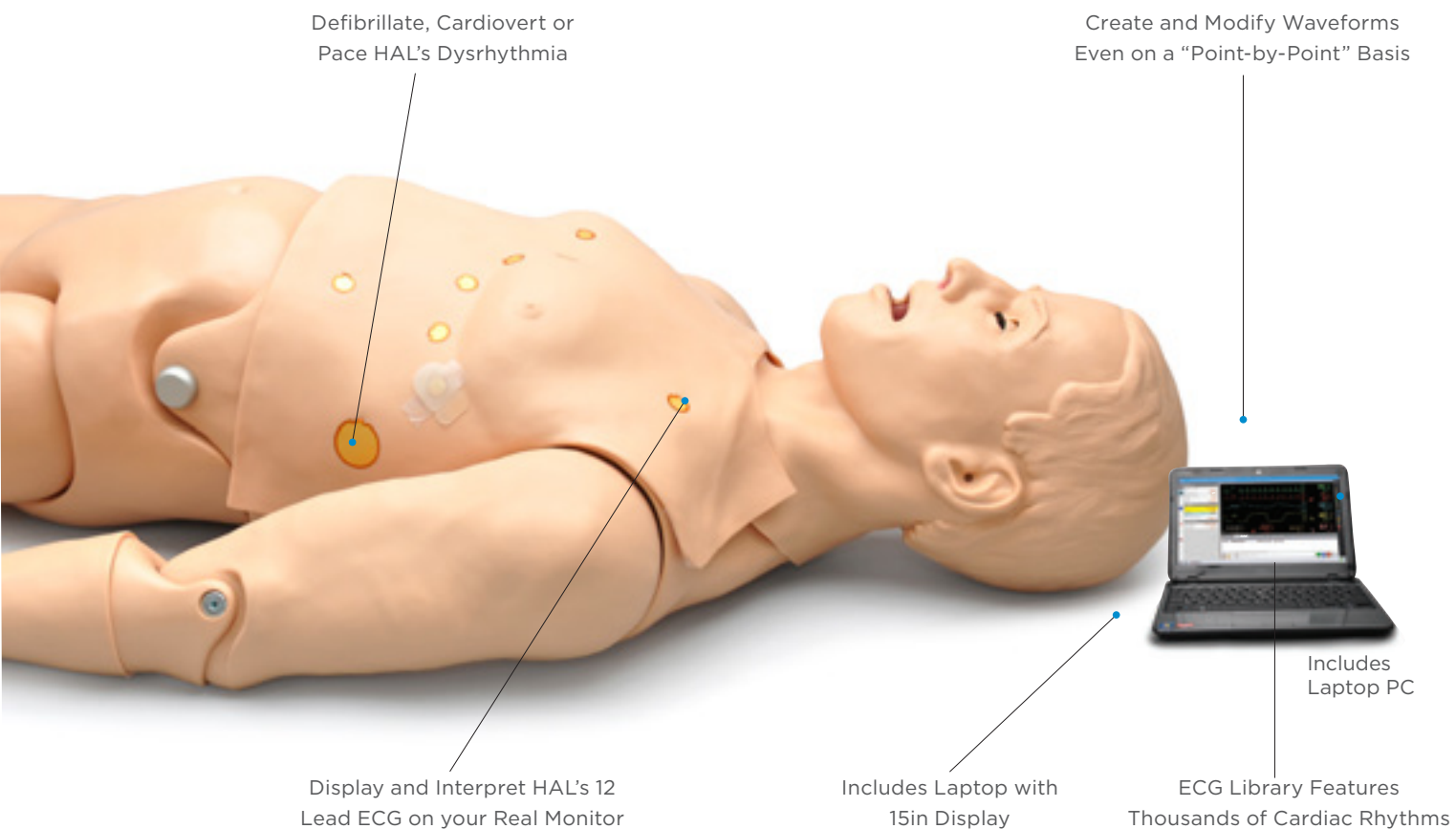
Specify additional 12 lead ECGs using
our editing feature

Defibrillate, cardiovert or pace HAL's
dysrhythmia with a real AED

Use your real 12 lead ECG monitor

HAL® S1020 | *Emergency Care Simulator*

Status Window Shows HAL's
Current Physiologic State

ECG Library Features
Thousands of Cardiac Rhythms
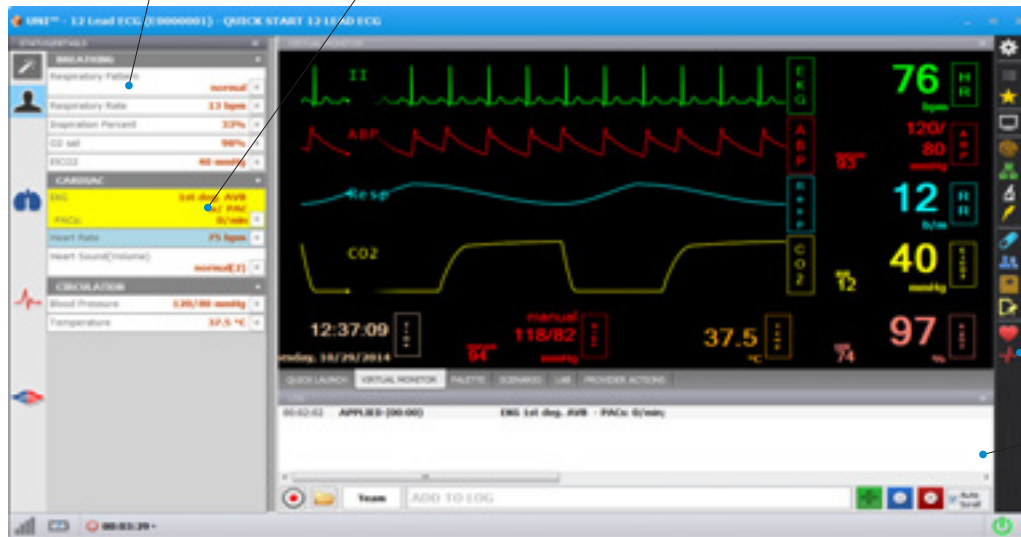
Display and Interpret
HAL's 12 Lead ECG

Automatic Event Log
for Debriefing

S1020 User interface displaying two dynamic ECG waveforms and 12 lead strip
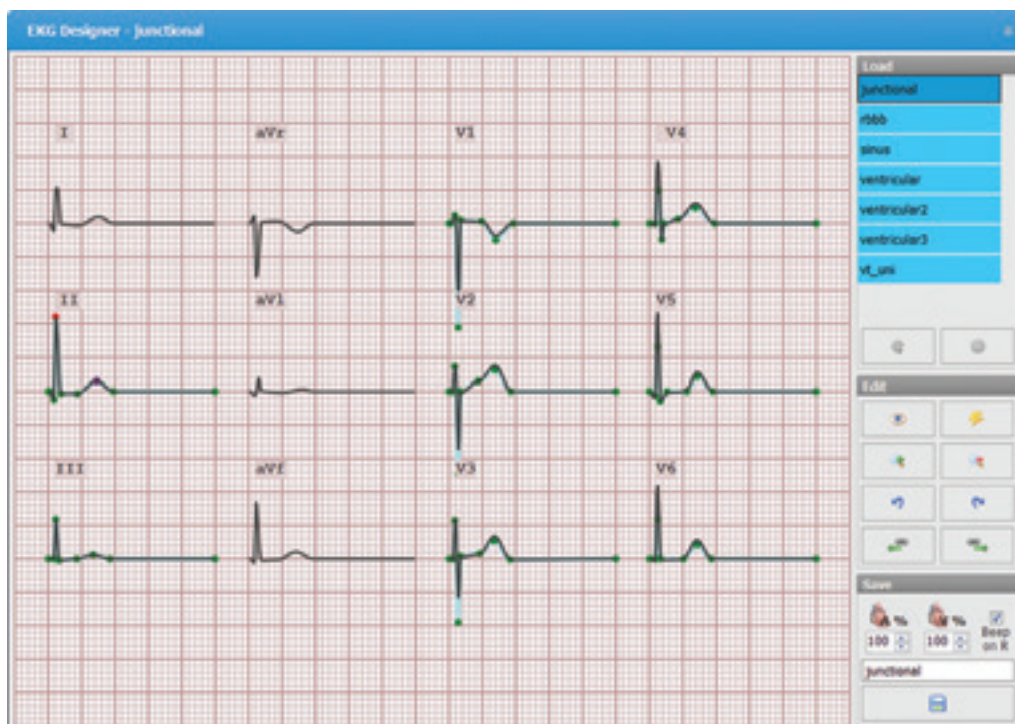
Rhythm editor allows you to create and modify waveforms even on a "point-by-point" basis. Editor is so accurate a REAL defibrillator will correctly interpret the resulting waveform

CALL US TOLL-FREE AT 800.882.6655

HAL® S1020 | *Emergency Care Simulator*

HAL® S1020

S1020.PK

Patented; other patents pending

HIGHLIGHTS

- Articulating adult HAL® full-size body
- Available in ethnic skin tones
- 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, 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

OTHER

- USB connections
- Int. power supply 100-240 VAC
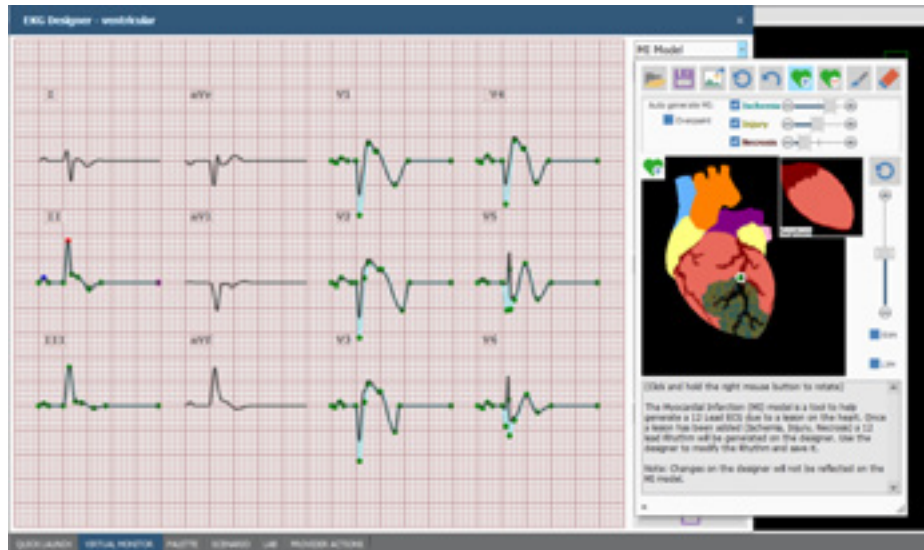
Use the integrated MI module to: specify occlusions, ischemia, injury, necrosis. Modify infarctions quickly and easily evaluate resultant and dysrhythmia and assess the extent of HAL's cardiac damage
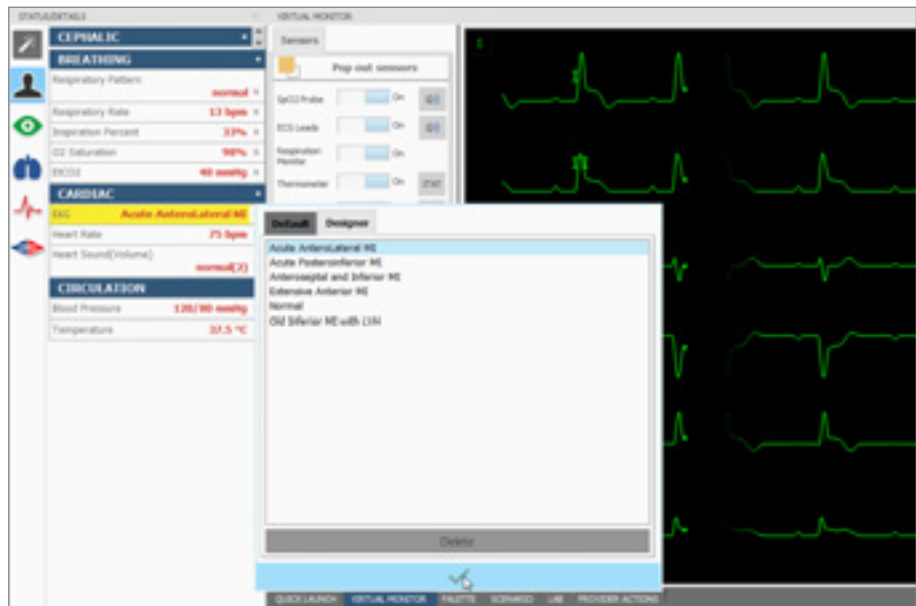
Easily apply preprogrammed and customized rhythms to HAL for participants to interpret and monitor using real equipment

INCLUDES

- Laptop with carrying case
- Simulator soft carrying case
- Instruction Manual

ALSO AVAILABLE AS:

Also available as an option on the

- HAL® S3101 or S3000 tetherless simulator

HEART & LUNG SOUNDS TRAINERS

Auscultation Training

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 and 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 tthe locations of the auscultatory sites and the sound types available. Additionally, the package includes a set of optional loud speakers useful when teaching an audience.

Teach site-specific heart and lung auscultation skills using seamless simulation technology. Simply press the bell against the skin and listen.

HAL® ADULT HEART & LUNG SOUNDS

S315.200.M2.PK

Skin tones available at no extra charge

HEART & LUNG SOUND ONE YEAR

S312.200.PK

Skin tones available at no extra charge

HEART & LUNG SOUND FIVE YEAR

S314.200.PK

Skin tones available at no extra charge

NURSING SKILLS TRAINERS
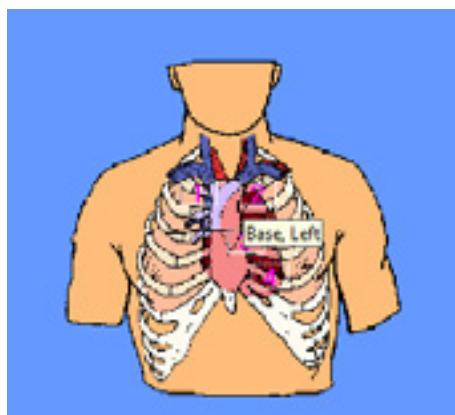
EXPERIENCE HEART & LUNG SOUNDS IN A VIRTUAL WORLD

S182   Adult

S183   Pediatric

HEART & LUNG SOUNDS ADULT

S315.200.M2.PK

Skin tones available at no extra charge ● ● ●

HEART & LUNG SOUNDS FIVE YEAR AND ONE YEAR

S314.200.PK Five Year

S312.200.PK One Year

Skin tones available at no extra charge ● ● ●

FEATURES

- 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

FEATURES

- 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

FEATURES

- 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

COMBINE WITH INTUBATABLE AIRWAY AND SAVE!

S315.300.M2.PK Adult

S314.300.PK Five Year

S312.300.PK One Year

Skin tones available at no extra charge ● ● ●

Site-specific sounds are an application of our patented Virtual Instrument® technology. Patents 6,193,519 and 6,443,735

HEART AND LUNG SOUNDS UPDATE KIT - ADULT

S200.848 Susie Simon®

S222.848 Clinical Chloe™

Skin tones available at no extra charge ● ● ●

FEATURES

- Update your Gaumard® manikin at your facility
- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart or lung sound as bell of stethoscope is moved across the front and back of the torso
- Includes our Virtual the 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

HEART AND LUNG SOUNDS UPDATE KIT - 5 & 1 YEAR

S150.848 Five Year

S110.848 One Year

Skin tones available at no extra charge ● ● ●

FEATURES

- Update your Gaumard® manikin at your facility
- 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
- Carrying bag
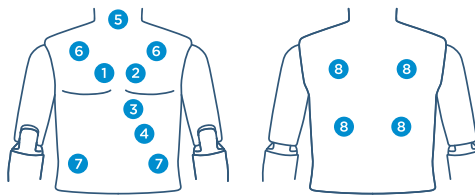
CHILD

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
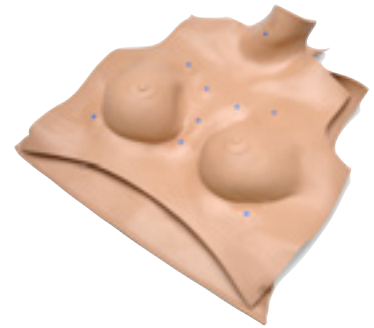
ADULT

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

NURSING SKILLS TRAINERS

S415 BLOOD PRESSURE 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.

BLOOD PRESSURE TRAINING SYSTEM | *S415*
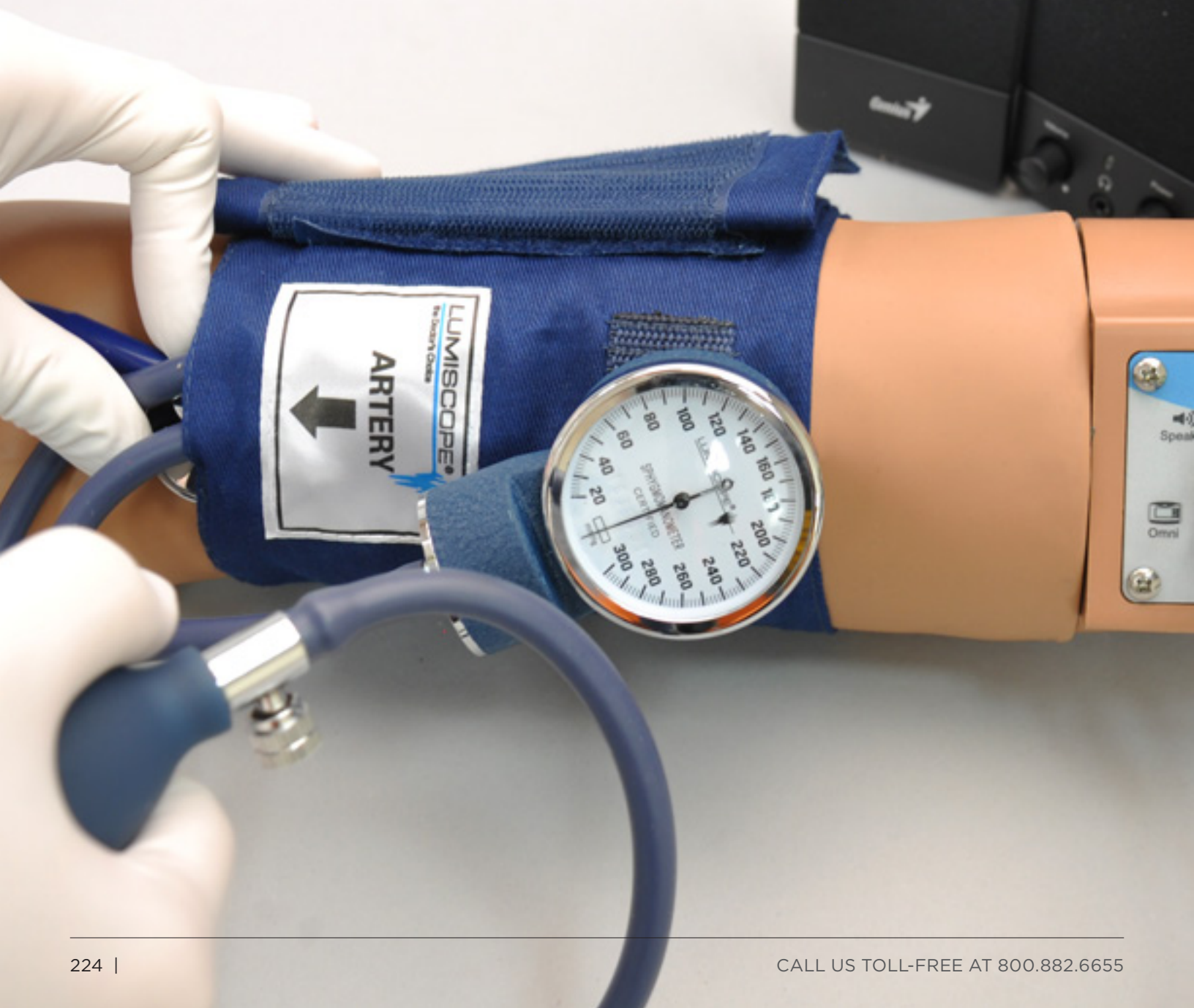
FEATURES

- Full-size left arm that may also be attached to Gaumard® manikin
- Programmable, palpable radial pulse when a 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 100 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
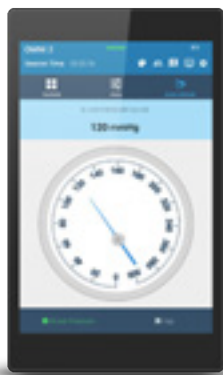
OMNI®2 BP SKILLS TRAINER

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

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 262.

BLOOD PRESSURE TRAINING SYSTEM

Blood Pressure Training System with OMNI 2
S415.250.PK

Blood Pressure Training System with OMNI 1
S415.PK

Skin tones available at no extra charge ● ● ●

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

Skin tones available at no extra charge ● ● ●

NURSING SKILLS TRAINERS

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
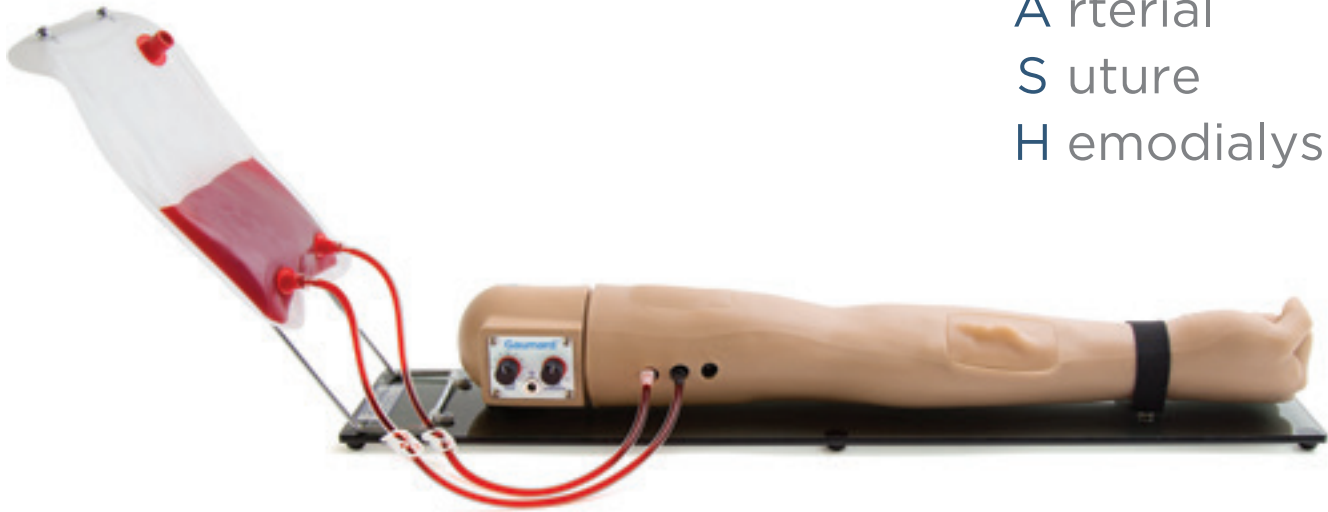
ARTERIAL AND VENOUS PATIENT TRAINING ARM

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
- Tabletop or simulator option available\ Standalone

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

S402.100R.PK

Skin tones available at no extra charge ● ● ●

The SMASH 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

S_ _ _.803R.AIV.R2

ADVANCEMENTS

- New proprietary materials replicate 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 and improves 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

CONSUMABLES

ARTERIAL & VENOUS INSERT

S402.100.911

Skin tones available at no extra charge ● ● ●

FISTULA INSERT

S402.100.912

Skin tones available at no extra charge ● ● ●

INCISION & SUTURE INSERT

S402.100.913

Skin tones available at no extra charge ● ● ●

ARM SKIN

S402.100.813 .L
S402.100.813 .M
S402.100.813 .D

INJECTION AND INFUSION | *Adult*

Arterial and venous blood sampling

Arterial and venous blood sampling

Arterial system providing palpable radial pulse

IV exercises on dorsum of hand

VEIN FILLING KIT

S402.100.985

ARTIFICIAL BLOOD CONCENTRATE

S402.100.812

DISPENSING BLOOD

S402.100.811

REPLACEMENT VEINS

S402.100.810

ADVANCED MULTIPURPOSE VENOUS TRAINING ARM

S401.100L
S401.100R

Combining all features required for IV, IM, and Sub-Q training in a challenging simulator.

- Connects to all Gaumard® adult 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, funnel, and powder
- Instruction manual

The S401.100 arm is also available as a preinstalled optional upgrade for the following full-body patient simulators: S200, S201, S203, S204, S205, S206, S220, and S221

S_ _ _.803R.MIV Right Arm
S_ _ _.803L.MIV Left Arm

NURSING SKILLS TRAINERS

MULTIPURPOSE VENOUS TRAINING ARM

S401R

Our multipurpose training arm provides all features of a conventional intravenous arm, as well as the ability to practice intramuscular and subcutaneous injections. Use of this superior simulator provides a safe and sanitary teaching and learning experience for you and your students Acquire both satisfactory familiarity. The anatomy of the human arm and knowledge of 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
- Intramuscular injection site in deltoid area
- 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

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

S_ _ _.803R.IV

FIVE YEAR INJECTION TRAINING ARM

The Mike® and Michelle® injection arm and hand simulate that of a 5-year-old, with lifelike venous structure. The dorsum of the hand has two veins for additional intravenous set-up. The flexor and lateral sides of the arm contain sites for subcutaneous injections. The deltoid contains an intramuscular injection site. Two interchangeable hands are supplied with the simulator.

FEATURES

- Intravenous injections, infusion, and blood collection
- Subcutaneous injections in both flexor and lateral sides of forearm
- Intramuscular injections in deltoid
- Lifelike venous structure
- Dorsum of hand has two veins for additional intravenous set-up
- Interchangeable hands: clasping hand and fingers extended for finger prick
- Squeeze bulb simulating either collapsed or distended veins
- Easily replaceable skin and veins that withstand multiple needle sticks
- Mounted on smoked Lucite® base and supplied with blood bag and stand, synthetic blood concentrate, squeeze bulb, and spare arm skin
- Soft carrying bag
- Instruction manual

FIVE YEAR INJECTION TRAINING ARM

S405.PK

Skin tones available at no extra charge ● ● ●

ONE YEAR INJECTION ARM
NEWBORN INJECTION ARM

These injection arms simulate those of a one-year-old and a newborn.

FEATURES

- Medial venous structure
- Two veins in dorsum of hand
- Radial and brachial arteries
- Squeeze bulb simulating either collapsed or normal veins
- Easily replaceable skin and veins that withstand multiple needle sticks
- Mounted on smoked Lucite® base and supplied with blood bag and stand, synthetic blood concentrate, squeeze bulb, and spare arm skin
- Soft carrying bag
- Instruction manual

ONE YEAR INJECTION TRAINING ARM

S406.PK

NEWBORN INJECTION TRAINING ARM

S408.PK

These injection arms simulate those of a one-year-old and a newborn.
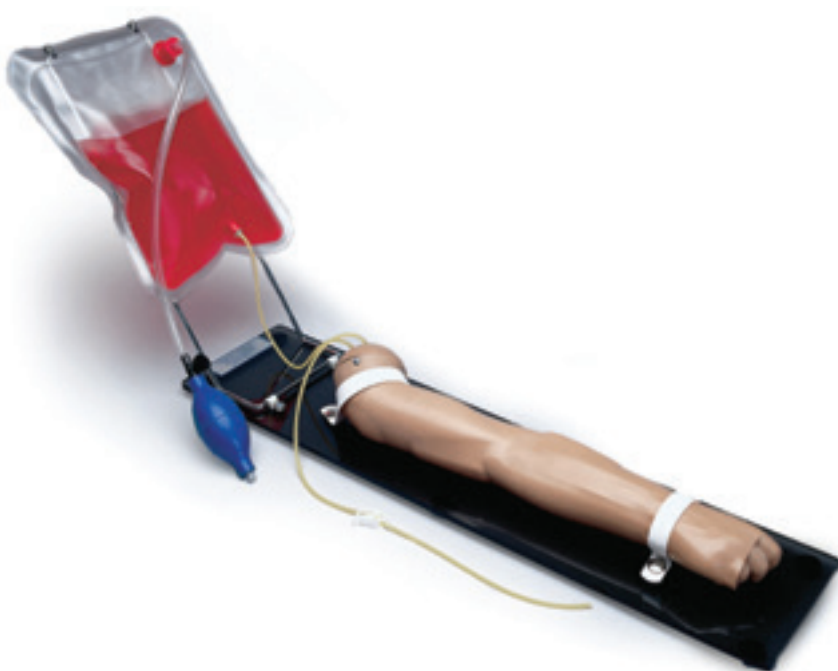
ADVANCED VENIPUNCTURE TRAINER

- This compact model allows you to improve competency and technique by progressing from easier, larger veins to more difficult, smaller veins.
- Four veins, three different sizes, one deeply placed
- Characteristic "pop" as needle enters vein
- Lightweight and compact
- Simulated blood, tubing and backing plate

V100

CARRYING CASE

V100.807

ARTIFICIAL BLOOD CONCENTRATE

V100.812

CHESTER CHEST™

A lifelike model of the human torso with detachable right arm that enables health care providers to learn and demonstrate competency with long-term vascular access devices: implanted ports, central venous catheters, and peripherally inserted central catheters. All of the vascular access devices used are actual clinical devices. Blood reservoir bag permits fluid infusion or "blood" withdrawal.

- Difficult accessing insert for wandering or shifting device
- Difficult accessing insert simulating the feel of a tilting or tipping device
- Difficult accessing insert simulating a deeply placed device when accessed through the outer tissue flap
- Outer tissue flap feels like human tissue. Skin moves when palpated
- Central venous catheter
- Peripherally inserted catheter
- Blood reservoir bags, tubing, talcum powder
- Soft carrying bag

V400P

PETER PICC

An outstanding teaching model for review of the principles and tools necessary to validate the knowledge and skills needed for Peripherally Inserted Central Catheter (PICC) insertion.

- Portable and lightweight
- Anatomically correct superior vena cava, subclavian, jugular, median basilic, basilic and cephalic veins
- Moveable chin simulates occlusion of the jugular vein
- Practice sterile technique for set-up and insertion of the PICC line
- Palpable ribs Palpable ribs allow you to practice measuring proper catheter length from insertion site to second or third intercostal. Practice how to confirm the proper placement of the distal tip of the catheter in the viewable superior vena cava
- Placement of standard IV catheter in the major veins

V450

NURSING SKILLS TRAINERS

ONE YEAR INTRAOSSEOUS INFUSION & INJECTION LEG

The Mike® and Michelle® Intraosseous leg simulates that 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.

S407.PK

Skin tones available at no extra charge ● ● ●

NEWBORN INTRAOSSEOUS INFUSION & INJECTION LEG

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.PK

Skin tones available at no extra charge ● ● ●
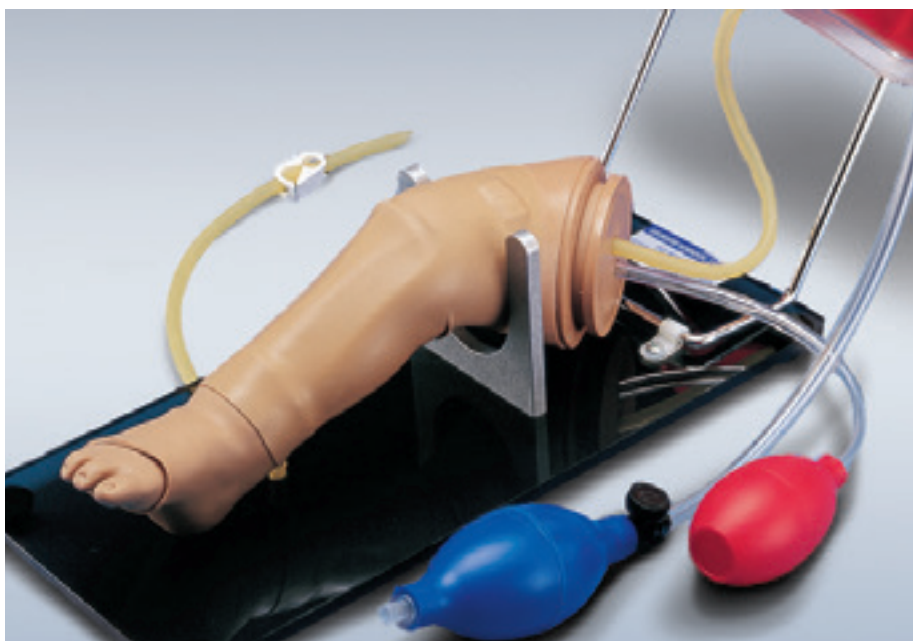
Insertion of intraosseous needle into bone marrow cavity

NURSING SKILLS TRAINERS
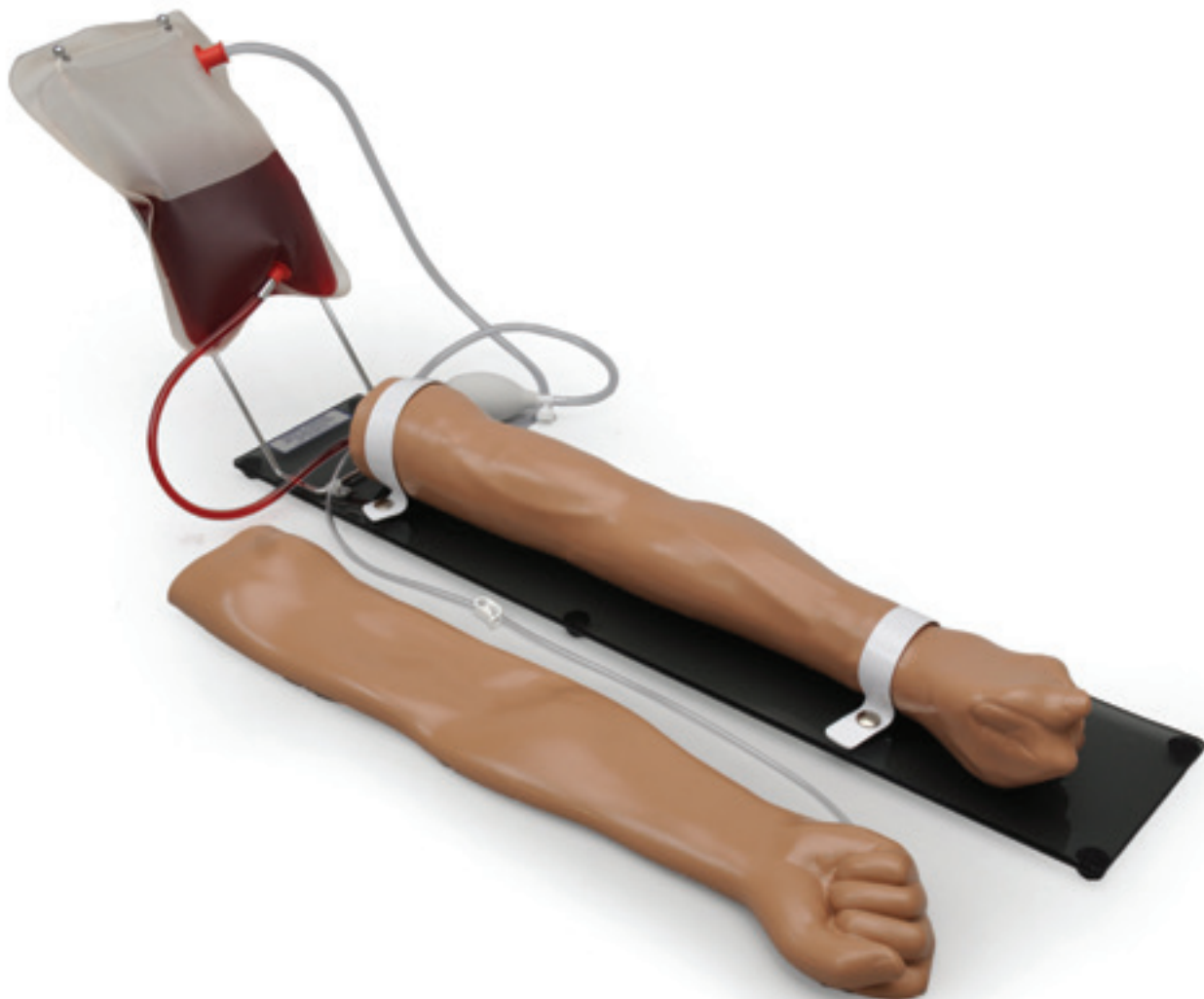
INTRAVENOUS TRAINING ARM

S400.PK

Skin tones available at no extra charge ● ● ●

Designed for essential training in the procedures of blood collection, infusion, and intravenous injections.

- Prominent venous network
- Simulated cephalic, basilic, antecubital, radial, and ulnar veins
- Simulation of infusion technique 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
- 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

Infusion technique

SKILLS TRAINERS

ADVANCED PATIENT CARE FEMALE OSTOMY SKILLS TRAINER

S230.2.PK

Skin tones available at no extra charge ● ● ●

- Sculpted stomas of a transverse colostomy, an ileostomy, and a supra-pubic stoma
- Connection of stoma sites 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
- Instruction manual
- Soft carrying bag

ADVANCED PATIENT CARE MALE PROSTATE SKILLS TRAINER

S230.3.PK

Skin tones available at no extra charge ● ● ●

- 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
- Instruction manual
- Soft carrying bag

ADVANCED PATIENT CARE ENEMA SKILLS TRAINER

S230.5.PK

Skin tones available at no extra charge ● ● ●

- Modular rectal valve to simulate sphincter mechanism
- Enema administration kit
- Smoked Lucite® stand for enema bag
- Instruction manual
- Soft carrying bag

ADVANCED PATIENT CARE MALE AND FEMALE CATHETERIZATION SKILLS TRAINER

S230.10.PK

Skin tones available at no extra charge ● ● ●

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 FEMALE CATHETERIZATION SKILLS TRAINER

S230.6.PK

Skin tones available at no extra charge ● ● ●

- 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 for practice in skin preparation, stoma hygiene, and application of disposable & permanent ostomy bags
- Modular urethral valve prevents fluid leakage
- 2 spare bladder tanks
- Instruction manual
- Soft carrying case

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

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.PK
Patents pending

Skin tones available at no extra charge ● ● ●

This microprocessor controlled simulator contains a built-in compressor which pressurizes the fluid system maintaining the pressure at the designated set point, while a pressure sensor monitors the simulated cerebrospinal fluid pressure.

NURSING SKILLS TRAINERS

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.

WOMEN'S HEALTH

BREAST PALPATION

S230.40.PK

Skin tones available at no extra charge ○ ● ●

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 look
- Durable
- Breasts are attached to an adult upper torso and can be easily removed and re-assembled
- 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

Skin tones available at no extra charge ○ ● ●

RIGHT BREAST #2: GIANT SARCOMA WITH WILDLY GROWING MASSES

S230.40.853R.2
Includes carrying bag

Skin tones available at no extra charge ○ ● ●

RIGHT BREAST #3: INVERTED NIPPLE WITH "ORANGE SKIN" EFFECT

S230.40.853R.3
Includes carrying bag

Skin tones available at no extra charge ○ ● ●

LEFT BREAST #1: CHRONIC MASTITIS

S230.40.853L.1
Includes carrying bag

Skin tones available at no extra charge ○ ● ●

LEFT BREAST #2: BENIGN GROWTH

S230.40.853L.2
Includes carrying bag

Skin tones available at no extra charge ○ ● ●

LEFT BREAST #3: SCIRRHUS CARCINOMA

S230.40.853L.3
Includes carrying bag

Skin tones available at no extra charge ○ ● ●

ADULT UPPER TORSO

S230.40.870
Includes carrying bag

Skin tones available at no extra charge ○ ● ●

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, containing technical information on how to care for and maintain the simulator

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

TORSO, WITH RIGHT & LEFT BREAST & CARRYING BAG

S230.52.PK
Patents pending

Skin tones available at no extra charge ● ● ●

REPLACEMENT BREAST PAIR

S230.52.853

Skin tones available at no extra charge ● ● ●

LEFT REPLACEMENT BREAST

S230.52.853L

Skin tones available at no extra charge ● ● ●

RIGHT REPLACEMENT BREAST

S230.52.853R

Skin tones available at no extra charge ● ● ●

WOMEN'S HEALTH

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.

SELF BREAST 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

Includes a Breast Examination Learning Package CD, which provides instructors with additional information and performance-based learning materials The Learning Package assists students to learn how to perform breast examinations competently and enables instructors to measure student performance objectively. Also included is an User Guide that provides technical information on how to care for the Breast Examination simulator S230.42.

TORSO, WITH RIGHT & LEFT BREAST & CARRYING BAG

S230.42.PK
Patents pending

Skin tones available at no extra charge ● ● ●

REPLACEMENT BREAST PAIR

S230.42.853

Skin tones available at no extra charge ● ● ●

LEFT REPLACEMENT BREAST

S230.42.853L

Skin tones available at no extra charge ● ● ●

RIGHT REPLACEMENT BREAST

S230.42.853R

Skin tones available at no extra charge ● ● ●

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

GYNECOLOGIC SKILLS TRAINING

ZOE® S504.200

- 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 Skills Training Torso*

ZOE® GYNECOLOGIC SKILLS TRAINER

S504.200.PK

Skin tones available at no extra charge ● ● ●

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 week
- 6-8 week w/ short ovarian ligaments
- 10-12 week
- 20 week
- (5) Normal patent cervices
- (6) Abnormal cervices
- Pregnant cervices
- (3) 6-8 week
- (3) 10-12 week
- Mineral oil
- Talcum powder
- Urine Kit
- Transport case
- Instruction manual

FISTULA PACKAGE

S504.200.700.1

Skin tones available at no extra charge ● ● ●

Lifelike practice suturing fistulous tracts

PACKAGE CONTENTS

- Vulva with vesicovaginal, rectovaginal and urethrovaginal fistulas

LIFELIKE GYNECOLOGIC TORSO

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

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

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


cutaway view

ZOE® GYNECOLOGIC SIMULATOR

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.
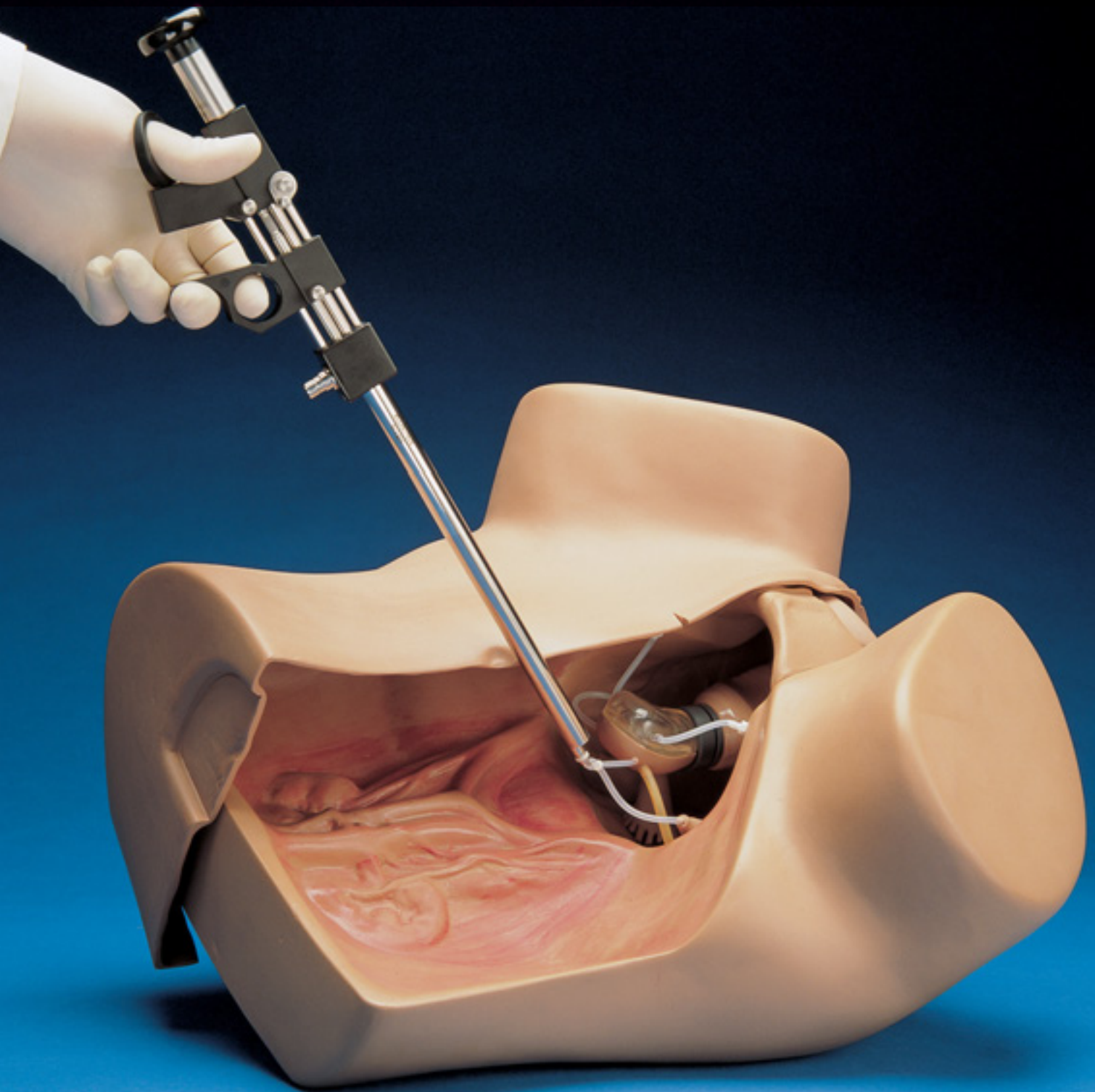
Patents 5,472,345 and D352,313

CALL US TOLL-FREE AT 800.882.6655

WOMEN'S HEALTH

Interchangeable introitus adds flexibility for multiple ZOE® options. Shown here is the 48 hour postpartum kit
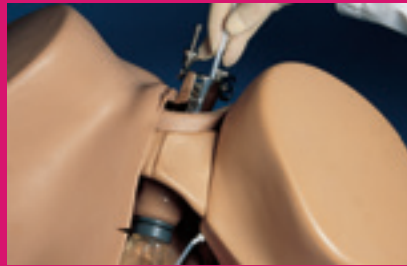
Insertion of IUD into uterus

Accessing replaceable fallopian tubes through minilap incision

FEATURES

- Full-size female lower torso with relevant internal anatomic landmarks
- Bi-manual 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
- 1 anteverted and one retroverted parous uterus
- 1 normal uterus with short fallopian tubes for palpation exercise
- Early pregnancy uteri. One is 6-8 weeks, and the other is 10-12 weeks
- 1, twenty-week pregnant uterus
- 5 normal cervices with patent os
- 4 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

S504.100.PK

Skin tones available at no extra charge ● ● ●

OPTIONS

Set of seven normal and abnormal uteri with externally palpable pathologies, featuring patented "screw" design

S504.1

Set of seven normal and abnormal uteri with internal pathologies for hysteroscopic viewing, featuring patented "screw" design

S504.2

48hr postpartum uterus with duckbill cervix and fallopian tubes for IUD insertion using long curved forceps

S504.3

10 minute postpartum uterus for IUD insertion

S504.5

Interchangeable uteri with normal and abnormal external pathologies

Early pregnancy uteri

Normal and abnormal cervices

Interchangeable uteri

WOMEN'S HEALTH

HYSTEROSCOPY SIMULATOR

S607.PK

Skin tones available at no extra charge ● ● ●

The most realistic hysteroscopy simulator available! A full-size female adult lower torso with a foam-backed soft outer skin simulates the feel of the anterior pelvic wall.

FEATURES

- Full-size female adult lower torso with removable soft outer skin
- Seven uteri including normal "control" uterus with healthy internal and external appearance
- Internal anatomic artwork of normal and abnormal uteri
- Internal representation of endometrial polyposis, fibroids, early and advanced carcinoma of the endometrium, torsion of sloughing fibroid, and carcinoma   of the fundus
- External representation of normal and abnormal uteri
- Palpation of normal and abnormal uteri
- Normal cervix and interchangeable uteri with patented "screw" design
- Soft carrying bag

Hysteroscope used to study internal walls of normal and abnormal uteri

RITA™ REPRODUCTIVE IMPLANT TRAINING ARM

S519.PK

Skin tones available at no extra charge ● ● ●

A compact simulator designed to insert and remove Levonorgestrel (Norplant®) implants

FEATURES

- Upper left arm on base
- Soft foam insert simulates soft arm tissue
- Soft foam insert allows multiple insertion exercises
- 5 tubular inserts
- One extra latex skin
- Instructions
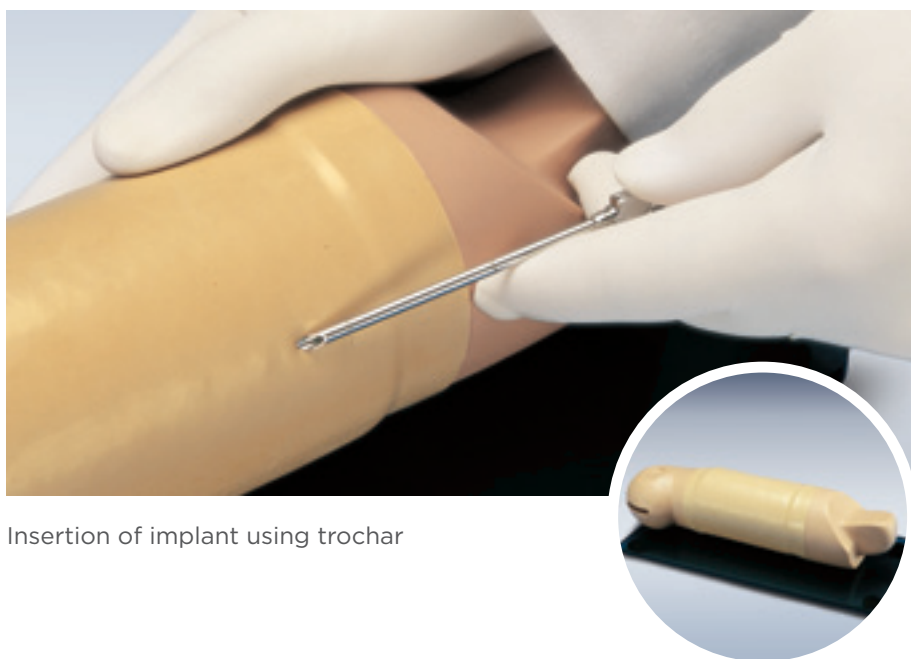
Insertion of implant using trochar

WOMEN'S HEALTH SKILLS TRAINERS

WOMEN'S HEALTH

GYN/AID®
GYNECOLOGIC SIMULATOR

S503.PK

Patent 5,472,345

Skin tones available at no extra charge ● ● ●

One of our most popular products! The full-size female adult lower body gives students and educators a graphic experience in vaginal speculum examination, bi-manual 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
- One normal anteverted uterus with transparent top and round ligaments
- Seven uteri with one normal "control" uterus and six with external uterine abnormalities
- Two normal cervices with patent os for IUD insertion/removal
- Uterus and cervix feature patented "screw" design for fast and easy change-out
- Contraceptive sponge insertion and removal
- Female condom insertion and removal
- Diaphragm and cervical cap insertion and removal
- 6 cervices with cervical abnormalities
- Anatomically accurate fimbriae and ovaries
- Talcum powder
- Instruction manual
- Soft carrying bag

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

Viewing of cervical pathology
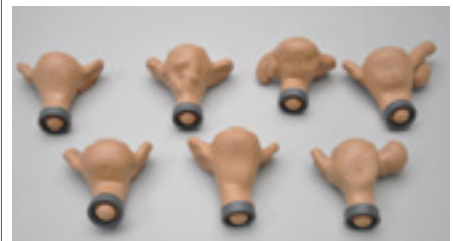
Interchangeable uteri with normal and abnormal external pathologies

WOMEN'S HEALTH SKILLS TRAINERS

WOMEN'S HEALTH

FEMALE PELVIC ORGANS I

S506

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

FEATURES

- Normal uterus
- Clear plastic window permits easy viewing of IUD
- Plastic window "tilts" open to permit removal of IUD

UTERUS II

### S507.100

FEATURES

- Coronal section of uterus, ovaries, and fimbriae
- Clear plastic window permits easy viewing of IUD

FAMILY PLANNING EDUCATOR

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, bi-manual examination technique 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
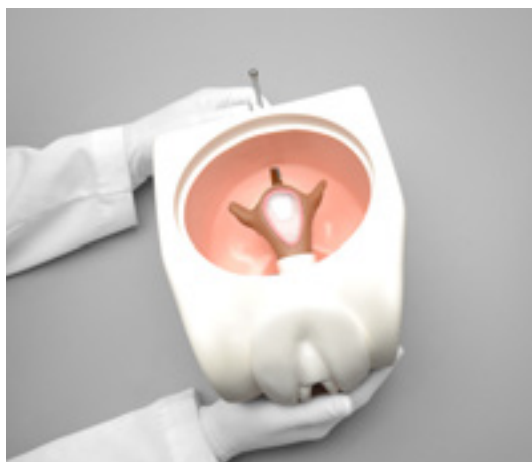
S502

CERVICAL DILATATION

With hand-painted, 3-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. 9inx12in

W90

WOMEN'S HEALTH

INTRA-UTERINE DEVELOPMENT TRAINER

S516

Combines our Fetal Ultrasound Trainer with a beautiful, hand-painted series of eight models depicting the developing fetus inside coronally dissected uteri.

FEATURES

- View over 200 digital videos with accompanying text describing normal and abnormal fetal conditions during the first, second and third trimesters
- CD-ROM used with Windows
- Let your students touch and feel the models of the developing fetuses. Educators confirm the positive effect of holding a fetal model. It is an enormous and significant benefit in the classroom
- Second and third-trimester fetuses are removable
- Anatomically accurate
- Mounted on smoked Lucite® base

FEMALE PELVIC ORGANS III

S511

This artwork model displays a superb sagittal view of the internal and external structures of female pelvic anatomy. This model is perfect for use in the secondary school classroom to demonstrate women's health and hygiene issues, and is appropriate for patient education by a physician or healthcare provider.

FEATURES

- Anatomically accurate
- Easy identification of all important anatomic landmarks and structures
- Mounted on smoked Lucite® base
- Keycard
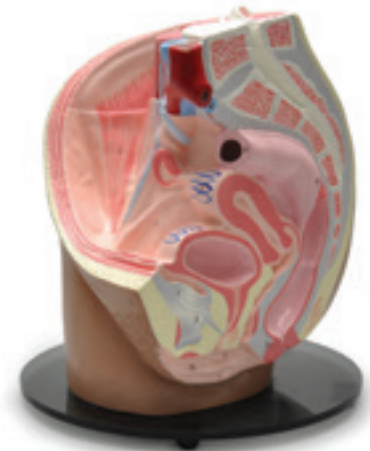
FEMALE CONDOM MODEL

S509

This model may be placed in the client's lap to simulate the position in which the female condom should be inserted.

FEATURES

- Demonstrate the use of a female condom, contraceptive sponge, and cervical cap
- Life-size anteverted uterus in simulated pelvic cavity
- Cervix attaches to uterus with patented "screw" design
- Soft vulva and vagina
- Soft plastic stomach cover
- Instruction manual
- Soft carrying bag

MEN'S HEALTH

ZACK™ MULTIPURPOSE MALE CARE SIMULATOR
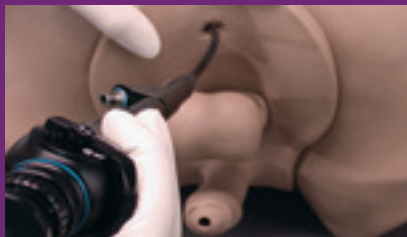
S230.11.PK

Skin tones available at no extra charge ● ● ●

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
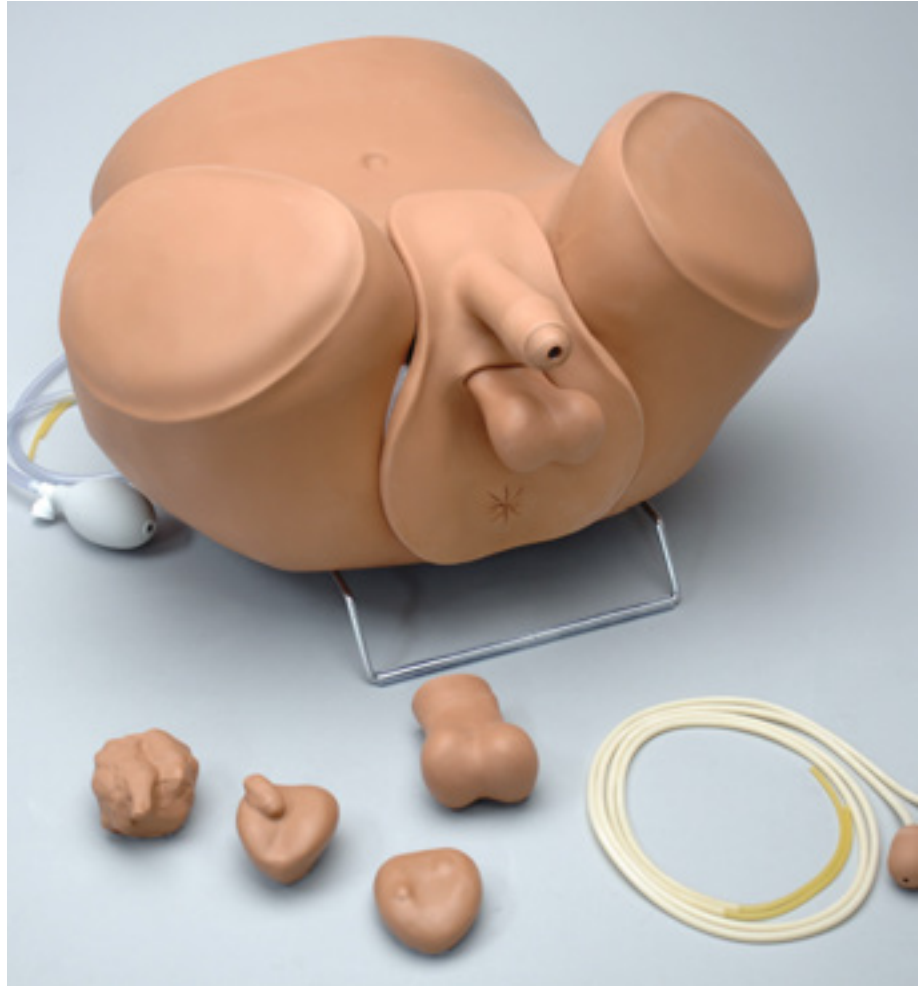
Internal bladder permits catheterization exercises

Locate nine tumors using endoscope

Perform digital examination using four interchangeable prostates

Check for testicular lumps

Conduct testicular self examination

Observe typical colon tumors

MEN'S HEALTH SKILLS TRAINERS

MEN'S HEALTH

ADVANCED PATIENT CARE MALE CATHETERIZATION SKILL TRAINER

S230.7.PK

Skin tones available at no extra charge ● ● ●

FEATURES

- 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 for practice in skin preparation, stoma hygiene, and application of disposable and permanent ostomy bags
- 2 spare internal bladder tanks
- Instruction manual
- Soft carrying bag

MALE CONDOM MODEL

S517

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.

CONDITIONS OF THE TESTICLE

W501

Practice how to perform a monthly testicular self-examination.
This 3D easel display depicts the anatomy of a normal testicle, a testicle with a cancerous lump, and a testicle with an inflamed epididymis.

NO SCALPEL VASECTOMY (NSV) MODEL

S518

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

MEN'S HEALTH
SKILLS TRAINERS

CARE IN MOTION™

Video-Assisted Debriefing Made Easy

- Wireless and tetherless hi-def audio and video 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 its 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 experience.
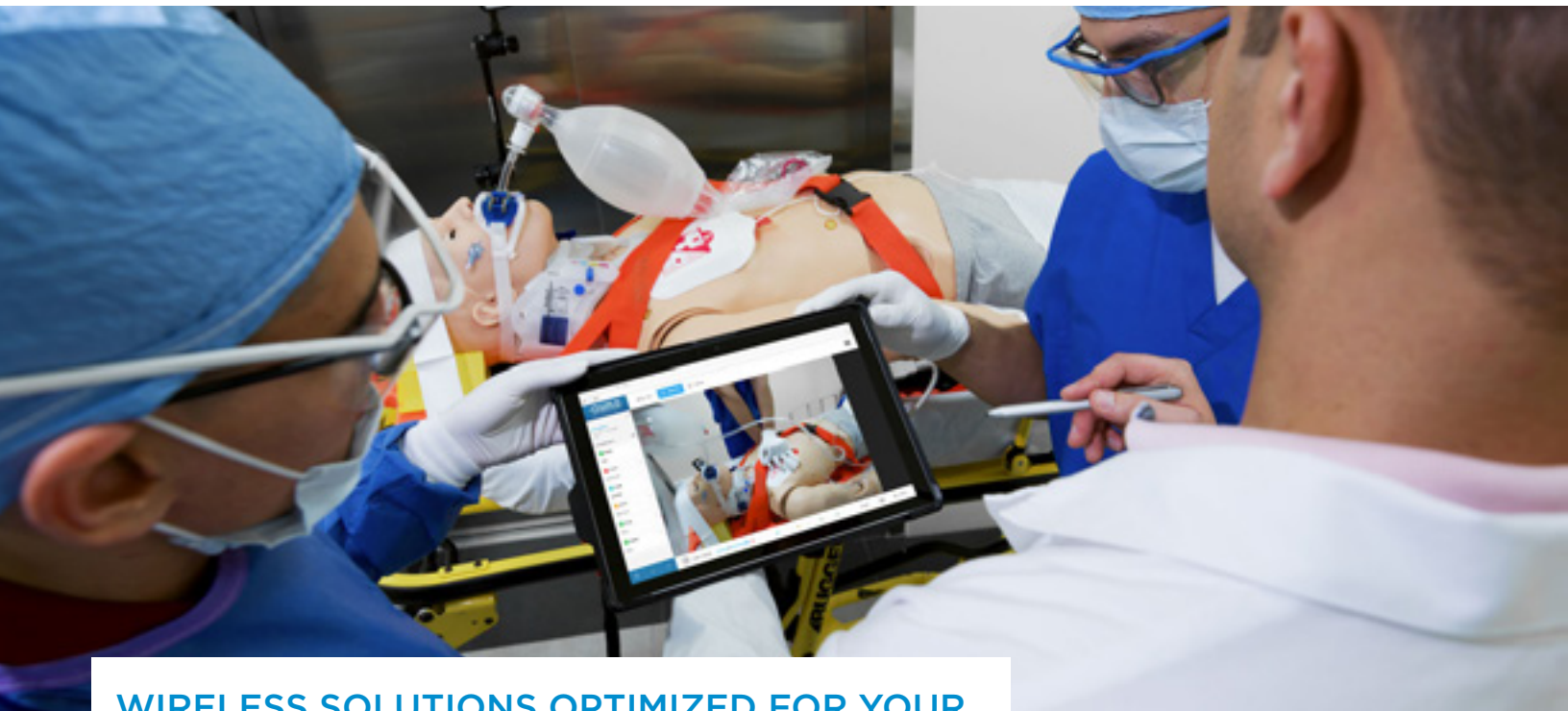
WIRELESS SOLUTIONS OPTIMIZED FOR YOUR DYNAMIC LEARNING ENVIRONMENT.

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 let you make use of existing devices if needed.

SERVICE AND SUPPORT.

Get the service and support you need and when you need it. Gaumard offers you free phone support and software updates for the life of the product.

Care In Motion™ | *Wireless Video-Assisted Debriefing Solutions*

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 time line
- 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

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

CALL US TOLL-FREE AT 800.882.6655

LEARNING MODULES | *OMNI®2 PACK*

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. And 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
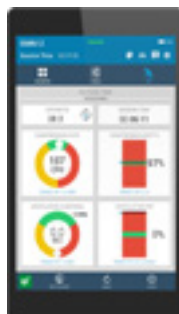
- Monitor CPR quality metrics in Real-time
- Interactive checklists let you easily track provider actions during the exercise

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.
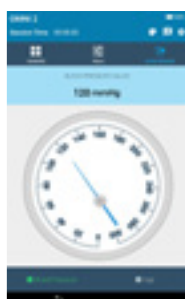## JUST TAP AND GO.

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

Automatic Delivery Controls

Manage fetal descent, dystocia, TOCO trace speed

Fetal Monitor Compatibility

Simulate trace patterns of maternal and fetal distress

Real-Time CPR Feedback

Spot and correct errors in technique performance

Performance Reports

Identify and improve weak areas; save, email, and print

LEARNING MODULES | *Features*

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 walk-through tutorial

PHYSIOLOGICAL CONTROLS*

- Control 35+ vital sign parameters including HR, ECG, RR, BP, O$_2$SAT, EtCO$_2$, 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

OMNI 2

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

OMNI 2.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

OMNI 2 Wireless adapter for OMNI 1 simulators.

OMNI2.LNK

VIRTUAL PATIENT MONITOR

All-in-one touchscreen PC preloaded with Gaumard VM patient software.

OMNI2.001.R2

MOBILE PATIENT MONITOR

Touchscreen tablet PC preloaded with Gaumard VM patient software.

OMNI2.002

OMNI® CODE BLUE PACK

The OMNI Code Blue Pack is an easy-to-use hand-held controller designed to improve the effectiveness of CPR training by providing you and the learner real-time CPR feedback, audible coaching cues, and session reports.

LEARNING MODULES

*PC sold separately
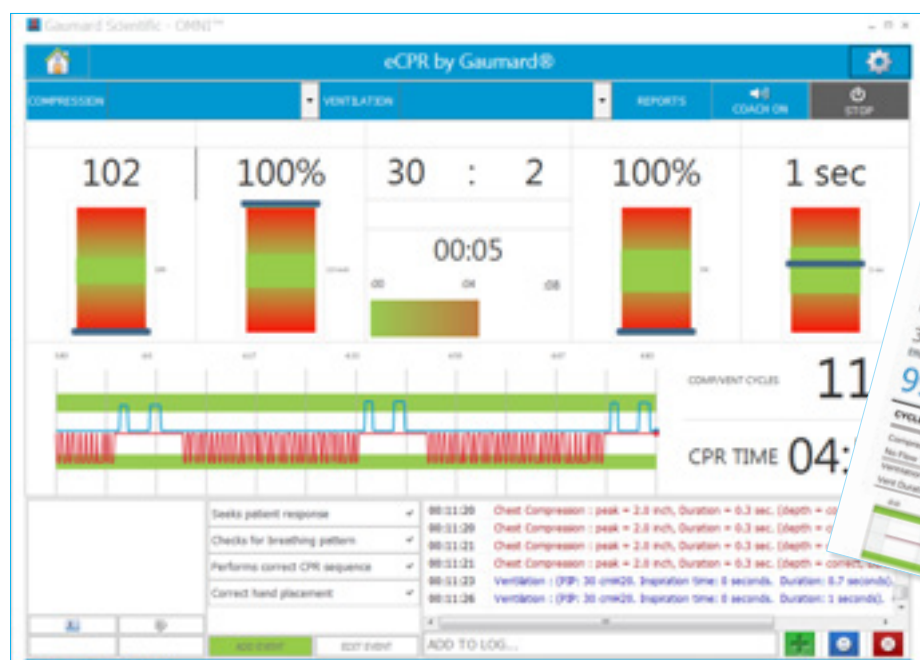
COMPLETE CPR TRAINING SOLUTION

Connect OMNI directly to any Windows® PC and use eCPR™ to view in-depth CPR quality metrics in real-time, log multiple participants in a session, and output performance reports for debriefing.

PACKAGE INCLUDES

- 1 OMNI® Controller
- Preinstalled CPR module inside your simulator
- 1 CPR Link cable and software for monitoring CPR on any Windows® computer

HAND-HELD MODE

Evaluate real-time compression and ventilation data directly on the hand-held screen and train cadence and ratio using audible coaching cues.

MANAGE	TRAIN	EVALUATE	DEBRIEF

SESSION MANAGER

- Manage training sessions for multiple sites
- Track and manage the session's participants
- Export participant performance reports
- Customize CPR parameters including rate, ratio, depth, and duration

PROVIDER MODE

- Full-screen feedback view for the participant
- CPR skill effectiveness target markers
- Audible guidance tones; compression and ventilation rate and ratio
- Vocal cues: Go faster, release, push harder, slow down

INSTRUCTOR MODE

- Real-time CPR quality metrics
- Automated coaching cues
- Single and 2-person CPR tracking
- CPR session time
- Interactive event log

eCPR™ REPORT

- Overall effectiveness scores
- Performance feedback for each CPR cycle
- Store reports into eCPR Session Manager for later viewing

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

CALL US TOLL-FREE AT 800.882.6655

TBI & STROKE
CARE TRAINING SOLUTION

Millions suffer from TBI and stroke injuries each year.
NewroSim™ can help train your team with the care and management skills essential to improving outcomes.

In one year alone, about 2.5 million emergency department visits, hospitalizations, or deaths were related to traumatic brain injuries, with an annual cost estimated at $76.5 billion (1,2,3,4). More than 795,000 people suffered a stroke, with related costs reaching an estimated $34 billion.

Patients suffering from stroke or traumatic brain injuries require immediate intervention and specialized care. Time is a critical factor. Healthcare providers must diagnose and treat patients quickly and effectively to improve outcomes.

NewroSim is the first Simulation-based, TBI and Stroke Care Training Solution. NewroSim™ is a model-driven, simulation training curriculum designed to help you train healthcare providers to diagnose and treat stroke and TBI victims. When paired with any of our HAL® S3000 adult series patient simulators, it offers the most true-to-life simulated clinical experience available today.

Developed in collaboration with Accurate S.r.l, NewroSim offers teaching content and learning objectives for all areas and specialties in stroke and TBI care, including first assessment and management, transport, emergency room care, and intensive care. NewroSim includes a library of stroke and TBI clinical scenarios, a software-based hemodynamic model, and an interactive virtual monitor, all in one ready-to-use package.

NEWROSIM HEMODYNAMIC MODEL CONTROLS

1. Centers for Disease Control and Prevention, National
2. Center for Injury Prevention and Control; (2010) Centers for Disease Control and Prevention (CDC), National Center for Injury Prevention and Control. Report to Congress on mild traumatic brain injury in the United States: steps to prevent a serious public health problem. Atlanta (GA): (2003) Centers for Disease Control and Prevention.
3. Finkelstein ES, Corso PS, Miller TR. (2006) *The incidence and economic burden of injuries in the United States.* New York, NY: Oxford University Press;
4. Mozaffarian D, Benjamin EJ, Go AS, et al. Heart disease and stroke statistics - (2015) update: a report from the *American Heart Association.* Circulation. ;e29-322.

NEWROSIM | *Hemodynamic Model*

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.

COMPREHENSIVE
Scenarios offer training for first responders, ED teams, neuro-unit care intensivists as well as 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
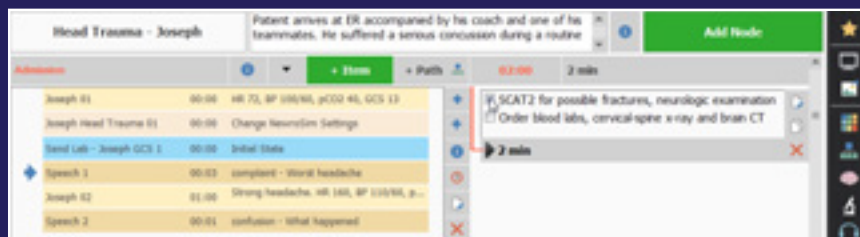
IINewroSim scenarios feature timed objectives, vital sign changes, speech responses, and assets such as labs and CT scans. To run a scenario simply checkmark the key events to progress the case.

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

NEWROSIM | *Hemodynamic Model*

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, monitor, and track 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 left or right side

- Change CO2 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 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 participation the following skills:

- Monitoring brain vessel status and perfusion
- Monitoring the effects of rescueintra-arterial thrombolysis
- Monitoring vessel recanalization during the treatment
- Identifying and monitoring aneurisms and malformation at the brain artery level
- Assess the effectiveness of the sonothrombolysis

Customize the patient monitor to mimic your native monitor screen.
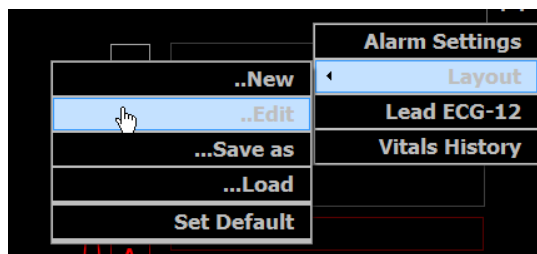
- Display up to 12 numeric values, including HR, ABP, CVP, PAWP, NIBP, CCO, SpO2, SvO2, RR, EtCO2, temperature, and time
- Select up to 12 dynamic waveforms, including PAWP, pulse, CCO, SvO2, respiration, capnography.
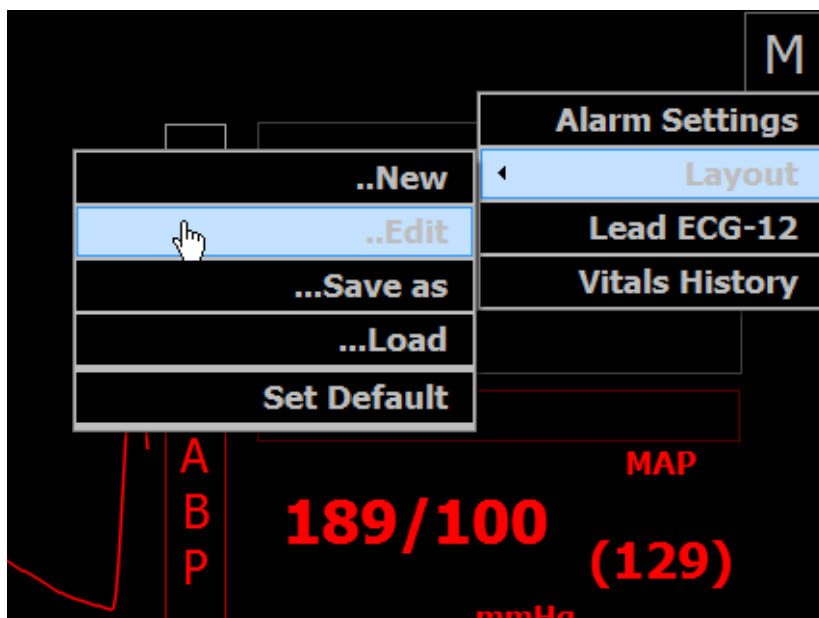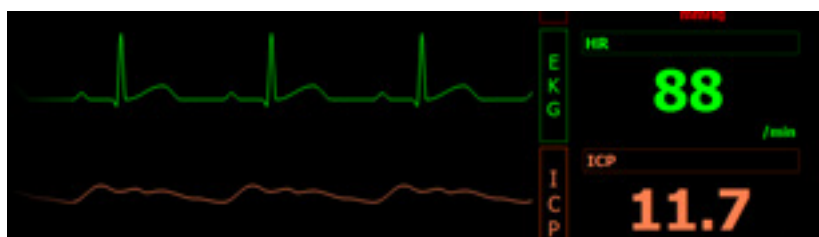

NewroSim Patient Vitals shown on Optional Gaumard Virtual Patient Monitor*
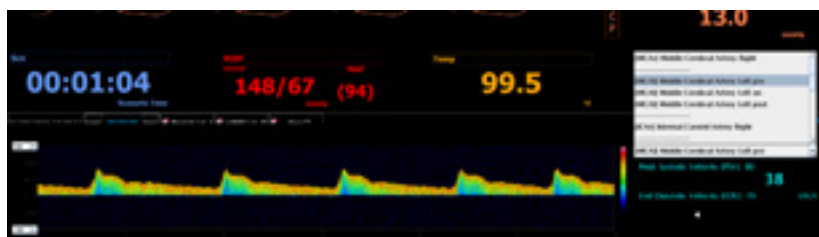
Transcranial Doppler Waveform and Vessel Selection Screen
The interactive transcranial doppler allows participants to select between the cerebral arteries to monitor blood flow velocity.

NewroSim Intracranial Pressure Reading & Waveform
The intra-cranial pressure (ICP) readings are generated by the NewroSim mathematical model. 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 seperately

NEWROSIM | *Options and Accessories*

NEWROSIM TRAINING PACKAGE INCLUDES

- NewroSim Hemodynamic Model
- 10 Preprogrammed Scenarios
- NewroSim Training Guide
- UNI® NewroSim License*

NEWROSIM FOR HAL® SERIES

HAL S3201

S3201.601

Trauma HAL S3040.100

S3040.100.601

HAL S3101

S3101.601

HAL S3000

S3000.601

HAL S1000

S1000.601

ADULT EMERGENCY WOUND KIT

WK100

The Emergency Wound Kit simulates lifelike injuries commonly seen in emergency situations, including contusions, compound bone fractures, and abrasions with inflammation.

- 11 wound types
- 18 total wounds
- WK100

20" TOUCHSCREEN PATIENT MONITOR PC WITH GAUMARD MONITOR LICENSE

- 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, SpO2, SvO2, RR, EtCO2, 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, SvO2, respiration, capnography.
- Share images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

S3040.001.R2

S3101.001.R2

S3000.001.R2

S1000.001.R2

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