

SIMULATORS FOR HEALTH CARE EDUCATION

2017 Product Catalog



Gaumard[®]
Simulators for Health Care Education

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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.

CARE IN MOTION

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.

Victoria is ready for simulation 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 with lifetime license
- 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*



LIFELIKE

Victoria® is a beautifully proportioned full-term mother. An incredibly smooth and supple innovative new skin covers her anatomically correct body from head to toe. Her lifelike appearance and human-like articulation allows care providers to suspend disbelief faster and care for Victoria® with uncompromising medical technique.

TRACKING EYES

Victoria's new eye movement and automatic tracking features can simulate impaired eye motion to illustrate stroke, head trauma, drug use, disease, cranial nerve impairment and other eye diseases and conditions.



FEATURES AND FUNCTIONS

- 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
- Real-time eye movement control via software joystick



SUPPORTS REAL MONITORING DEVICES

Victoria supports the widest range of medical diagnostic equipment of any tetherless maternal and neonatal simulator, allowing participants practice equipment setup, operation, and data interpretation.

- Fetal monitor
- ECG monitor
- Defibrillator
- Pulse oximeter
- Capnograph
- NIBP monitor



OBSTETRICS

- Abdomen supports the placement of real ultrasound and toco transducers to monitor fetal activity in real time
- Fetal heart tone moves with fetal descent
- Palpate contractions manually
- Internal bladder with fluid reservoir for urinary catheterization exercises
- Perform Leopold and/or external cephalic version exercises
- Epidural needle placement detection
- Epidural site features a skin layer, a subcutaneous layer, connective tissue, and palpable lumbar vertebrae
- Maternal-fetal-newborn automatic model
- Drug recognition forearm sensors detect programmable drug syringes
- Rectal suppository and drug recognition
- Medications infused affect mother and fetal vital signs
- Preeclampsia and eclamptic presentation with mild and severe seizures
- 45+ preprogrammed scenarios with lifetime license included
- Simulate labor and delivery scenarios in real time or at an accelerated pace
- Precise labor scenario repeatability for competency based training and assessment
- Accurate relationship between the fetal presenting part and maternal ischial spines
- Software activated self-lubricating birth canal system ensures the birth canal and the fetus remain lubricated between simulations
- 5th generation whisper-quiet precision Fetal Delivery System simulates repeatable descent and cardinal movement

OBSTETRICS | Maternal and Neonatal Birthing Simulator



LABOR CONTRACTIONS

Victoria's abdomen realistically relaxes and firms with every contraction. This human-like behavior allows providers to palpate contractions during assessment. Attach a real fetal monitor directly to the abdomen to track the fetal heart rate and contraction frequency, intensity and duration.



LIFELIKE FULL-TERM ABDOMEN

Victoria's full-term abdomen has a smooth feel with lifelike roundness and firmness. Within her pregnant belly, the unborn fetus floats freely inside an amniotic sack, providing tactile feedback and resistance when performing Leopold's maneuvers or external version exercises.

NORMAL LABOR AND BIRTH

- Lifelike birthing mechanics and cardinal movements
- Programmable intrapartum bleeding
- Realistic cervical dilation
- Sensors monitor force applied to fetal head
- Lifelike placenta allows for placenta previa, retained placenta, and retained fragments simulation
- Umbilical cord supports clamping and cutting
- Simulate cord complications including:
 - > Nuchal cord
 - > Cord prolapse
 - > True knots

THE NATURE OF LABOR AND DELIVERY

In the real world no two labors are the same. Every delivery is unique. Nature is unpredictable. Care providers must be ready to ensure the safety of the mother and baby in any situation.

Victoria can simulate low and high risk deliveries with an endless variation of clinical presentations and she can do so with precise repeatability. The patented fetal delivery system, powerful control software and a library of pre-programmed scenarios combine to allow learners to resolve situations in a safe environment, improve performance in specific situations and gain valuable hands-on experience.

PRECISION DELIVERY EVERY TIME

Victoria features the most advanced and innovative fetus delivery system. It allows her to simulate the natural movement of the fetus during childbirth with unmatched fidelity. It is ultra-precise, whisper-quiet and smooth. The fetus realistically rotates, dips, and dawns on delivery with natural grace.

Victoria's innovative birthing system is remotely controlled using a powerful yet intuitive user interface. This seamless combination of software and hardware allows for the precise control of fetal movements to be in perfect synchrony with vital signs during delivery. The system allows you to repeat and replay even the most complex scenarios so each team of participants can be challenged in the same manner and each assessed objectively.



NORMAL DELIVERIES

Victoria sets a new standard of realism in childbirth simulation. Her birth canal is anatomically correct, complete with a dilating cervix and pelvic landmarks. During delivery, the fetus dips, dawns, and rotates in a natural way. Care providers can assist the fetus during the delivery while the interaction is monitored directly from the software's 3D fetal animation.



BREECH DELIVERIES

Simulate a realistic breech birth to prepare care providers for low frequency, high-risk vaginal breech deliveries. Victoria permits the use of breech delivery management techniques, such as Pinard's maneuver, to facilitate a vaginal delivery. Alternatively, she supports the use of the Zavanelli maneuver, while being rushed to the operating room for an emergency C-section delivery.



ASSISTED DELIVERIES

Victoria's fetus allows for the performance of assisted deliveries using real instruments such as vacuum-assisted delivery devices and forceps.

OBSTETRICS | Maternal and Neonatal Birthing Simulator

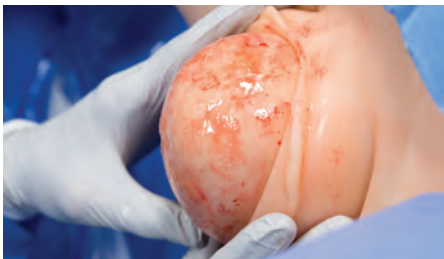


C-SECTION DELIVERIES

Victoria's tetherless design, realistic anatomy, and presentation of symptoms allow for a comprehensive simulation scenario that requires a C-section delivery. Train your team on C-section delivery protocols that can include assessment, transport, hand-off, and the surgical procedure to deliver the baby. Victoria's C-section delivery capability supports the use of real surgical instruments for cutting and suturing the abdominal wall. The replaceable abdominal insert is multi-layered to simulate real skin and bleeds when cut.

C-SECTION

- C-Section abdomen features a replaceable multilayered skin complete with subcutaneous layer with simulated blood, fascia, rectus muscle, and peritoneum
- Perform a C-section delivery using real surgical instruments and sutures



Amniotic fluid presents early in the delivery process to help lubricate the birth canal and the fetus as it passes through the birth canal.



Victoria's realistic articulation lets caregivers perform maneuvers such as McRoberts, "hands and knees", and more.



SHOULDER DYSTOCIA

Entrapment of the fetal shoulder is an emergency situation. To prevent fetal injury, care providers must work as a team and act quickly. 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 are synchronized 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, Lovset, or Zavanelli
- Hip-joint sensors detects and logs leg angle

POSTPARTUM

- High fidelity postpartum abdominal system integrates the reproductive system with hemorrhaging capabilities to 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
- Internal hemorrhage fluid reservoir with 1 liter capacity
- Programmable uterine hemorrhage flow control
- Tactile realism during fundal massaging
- Manage uterine hemorrhage using medications or a balloon tamponade

Three replaceable episiotomy modules:

- » *midline episiotomy with peri-urethral tears*
- » *mediolateral episiotomy with tears to the labia minora*
- » *interchangeable fourth degree episiotomy with hemorrhaging vaginal sidewall tears and cervical lacerations*

5 INTERCHANGEABLE ABDOMINAL COVERS

- Palpation
- Contraction
- Cesarean
- Post partum hemorrhage
- Non-gravid*

*Option S2200.234 Nursing and Gynecology Pack

OBSTETRICS | *Maternal and Neonatal Birthing Simulator*

ASSURING A HEALTHY START

Evaluating and caring for a newborn immediately after birth are important team skills. Victoria can simulate complications where the newborn presents signs of distress that require immediate intervention.

ACTIVE BIRTHING BABY

Victoria's birthing baby is a beautifully proportioned, full-term baby with realistic size and weight, a soft and supple skin, and programmable vital signs. An endoskeleton provides human-like joint articulation and resistance when assisting the fetus during the delivery. These innovative features will provide your participants with the most realistic simulated childbirth experience yet.



ACTIVE BIRTHING BABY FEATURES

- High-fidelity full-term baby with realistic size and weight
- Orientation sensors in the body report internal and external rotation and the position of the head relative to the body
- Anatomical landmarks include palpable fontanels and sutures
- Natural and graceful extension and rotation of the fetal head during birth
- Fully articulating fetal neck and limbs allow the practice of obstetrical maneuvers
- Smooth skin allows the use of vacuum devices or forceps
- Smooth full body skin with seamless joints
- Full body endoskeleton provides postural support, range of motion and resistance
- Articulated spine, shoulder, elbow, hip, and knee joints with human-like range of motion allows practice of newborn assessment techniques
- Multiple heart sound types and programmable heart rate
- Multiple respiratory sounds and programmable respiratory rates
- Crying with adjustable volume levels
- Central cyanosis with programmable intensity levels
- Visible head movement
- Programmable conditions for 1-minute APGAR assessment
- Detachable umbilical cord can be configured to simulate cord complications



MOVEMENT



CYANOSIS



AUSCULTATION

CONTINUOUS NEONATAL CARE | *Signs of Health*

VICTORIA® AND THE NEW SUPER TORY® S2220

Super Tory is a standalone wireless and tetherless neonate designed to simulate complex pathologies and respond to intervention with unparalleled realism. Super Tory introduces a host of new features, including active limb motion, true ventilator support, monitorable vitals, and much more.



Super Tory looks and feels just like Victoria's active birthing baby, making the transition between neonates perceptually seamless for the participant.

What's more, the "Mother-Newborn Link" feature wirelessly transfers the condition of Victoria's Active Birthing Baby to Super Tory at the moment of birth with just 1 click; thereby, allowing participants to train continuity of care skills essential to improving response time and teamwork.





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 or even the insertion and inflation of a balloon tamponade device.



EPISIOTOMY REPAIR / PLACENTA

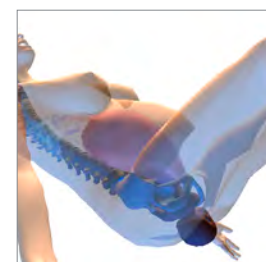
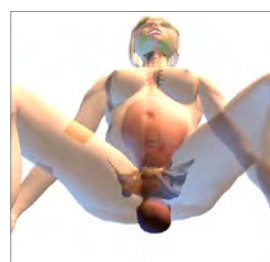
Victoria includes three replaceable episiotomy modules which feature a midline episiotomy with peri-urethral tears, a mediolateral episiotomy with tears to the labia minora, and a multi-layer fourth degree episiotomy with hemorrhaging vaginal sidewall tears and cervical lacerations. These modules allow multiple surgical repairs using real surgical instruments. Victoria's realistic placenta and umbilical cord allow for the simulation of various complications including nuchal cord, placenta previa, cord prolapse, retained fragments, and much more.



Powerful patient simulator control software offers the ease of use and capability required by even the most advanced simulation programs. The software is preinstalled on the wireless tablet PC included with Victoria. This lightweight tablet allows you to effortlessly control Victoria by the bedside, from a control center, or anywhere else up to 300 feet away. The user interface includes a labor and delivery control screen, patient and fetal monitor, an active 3D patient animation, a scenario editor and player, a laboratory report generator, an activity log, and much more. The labor and delivery control screen is an intuitive user interface with options and controls to manage or program the labor and delivery process. Get simulations started right away with the included comprehensive library of more than 30 preprogrammed labor and delivery scenarios, complemented by printed student and instructor guides. Scenarios are easy to create or edit so you can expand the scenario library as needed by your program.

AUTOMATIC MODE

The Automatic Mode software engine features a maternal/fetal/newborn model which simulates the physiological link between the mother, fetus and newborn. The software engine automatically adjusts the mother's and fetus' vital signs in response to medications, blood loss, and interaction by the care provider. It also allows you to wirelessly transfer the condition of the fetus to Tory S2210, Newborn HAL® S3010, or Premie HAL® S3009 for a seamless transition into a full neonatal resuscitation scenario.



ACTIVE 3D

Victoria is designed to capture a care provider's performance. Built-in sensors track the forces applied to the fetus and its position as it moves through the birth canal. The feedback information is displayed via an active 3D patient animation of Victoria and her fetus. Such animation can be recorded and viewed during debriefing.

VICTORIA® S2200 | Features

MATERNAL FEATURES

AIRWAY

- Head tilt/chin lift/jaw thrust
- Oral or nasal intubation
- Programmable difficult airway: laryngospasm, tongue edema and pharyngeal swelling
- Sellick maneuver brings vocal cords into view
- Airway intubation depth detection, logging, and reporting
- Esophageal intubation
- Selectable upper airway sounds synchronized with breathing patterns
- Bag-Valve-Mask ventilation with visible chest rise

BREATHING

- Automatic spontaneous breathing
- Selectable respiratory patterns synchronized with chest rise include normal breathing, Cheyne-Stokes, apnea, and more
- Selectable bilateral or unilateral anterior lung sounds synchronized with respiratory patterns include: wheezing, inspiratory squeaks, crackles, and more
- 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

CARDIAC

- Monitor compression and ventilation performance for maternal (CPR) training and performance assessment
- 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
- Defibrillate, cardiovert, or pace using real energy
- Defibrillation response, logging and reporting
- Realistic heart sounds
- Programmable heart rate synchronized with ECG and pulses, even during pacing
- Display virtual 12 lead dynamic ECG rhythms

NEUROLOGIC

- Programmable blinking rate, dilation and eye response
- Programmable unilateral pupil dilation
- Seizures with selectable intensity levels

SPEECH

- Be the voice of Victoria and engage in a realistic patient/provider dialogue during the simulation
- Listen to the care provider's response at distances up to 100 ft. away
- Record and playback vocal responses in any language

CIRCULATION

- Bilateral palpable carotid, radial, and brachial pulses are synchronized with heart rate and blood pressure
- Monitor oxygen saturation on the left index finger using a real oximeter and finger sensor
- Disable radial pulses
- Measure blood pressure using a real sphygmomanometer support for manual and automatic blood pressure cuffs
- Auscultate Korotkoff sounds between systolic and diastolic pressures
- Pulse strength is blood pressure dependent
- Bilateral venous access
- Automatic drug recognition system integrated into the lower right forearm detects medication type, dose, and rate
- Medications infused into the drug recognition arm trigger automatic vital sign changes which affect the mother and fetus
- SubQ and intramuscular injection sites for placement exercises

DIGESTIVE

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

UNI® SOFTWARE

- Control Victoria using manual controls, programmed scenarios, or with assistance of the Automatic Mode
- 45+ preprogrammed scenarios with lifetime license
- Easy-to-use scenario editor
- Maternal-fetal-newborn automatic model
- Track participant actions

Built-in tools:

- » Lab test/result generator
- » Virtual patient monitor
- » Virtual fetal monitor
- » Drug editor with 50+ preprogrammed medications
- » Questionnaire/form generator

Active 3D patient view allows you to monitor important real time information:

- » Fetus descending through the birth canal
- » Traction applied to the fetal head
- » Suprapubic pressure
- » Leg angles during McRoberts maneuvers
- » Position of mom on the birthing bed: supine, prone, hands, and knees
- » Movement of the fetus throughout delivery
- » Scenario play



ACTIVE BIRTHING BABY

- High fidelity full-term baby with realistic size and weight
- Orientation sensors in the body report internal and external rotation and the position of the head relative to the body
- Anatomical landmarks include palpable fontanels and sutures
- Natural and graceful extension and rotation of the fetal head during birth
- Fully articulating fetal neck and limbs allow the practice of obstetrical maneuvers
- Smooth skin allows the use of vacuum devices or forceps
- Smooth full body skin with seamless joints
- Full body endoskeleton provides postural support, range of motion and resistance
- Articulated spine, shoulder, elbow, hip, and knee joints with human like range of motion allows practice of newborn assessment techniques
- Multiple heart sound types and programmable heart rate
- Multiple respiratory sounds and programmable respiratory rates
- Crying with adjustable volume levels
- Central cyanosis with programmable intensity levels
- Visible head movement
- Programmable conditions for 1-minute APGAR assessment
- Detachable umbilical cord can be configured to simulate cord complications

VIRTUAL PATIENT/FETAL MONITOR

- Interactive patient and fetal cardiocograph touchscreen monitor included
- Display maternal and fetal vital signs simultaneously
- Customizable screen layout can mimic real diagnostic monitor interfaces
- Customizable vital sign parameter alarms
- Display images such as ultrasounds, CT scans, lab results for care providers to use during the simulation
- Display maternal vital signs and FHTs side by side
- Display up to 8 numerical parameters, 5 real time waveforms in the Manual operating mode, 12 real time waveforms in the Automatic operating mode
- All-in-one touchscreen Windows® PC receives maternal and fetal vital signs data wirelessly

Cardiograph screen displays information in real time:

- » Contractions frequency, duration and intensity
- » Uterine resting tone
- » Fetal heart rate baseline
- » FHR variability
- » FHR episodic, periodic, and variable changes
- Uterine activity is synchronized with the mother's condition and the movement of the fetus during labor
- Audible heart tones simulate external fetal heart tones or an internal fetal scalp electrode
- Review up to 2 hrs of recorded fetal tracings
- Save/print fetal tracings for debriefing

VICTORIA®

S2200

Patented; other patents pending

VICTORIA®

- 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*
- 45+ Preprogrammed scenarios with Lifetime License*
- Automatic Mode control license
- Streaming voice headset
- 20in 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
- 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

Skin tones available at no extra charge

● Light ● Medium ● Dark

SUPER TORY®

S2220

Patented; other patents pending

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

NEWBORN TORY® S2210

S2210

Patented; other patents pending

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

PREMIE HAL® S3009

S3009

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

12" MOBILE PATIENT MONITOR

S2200.002

- Mobile patient monitor displays vital signs in real time
- Display numeric values and waveforms
- Customizable alarms and layout
- Display simulated ultrasounds, CT scans, lab results, x-rays

DEEP VEIN THROMBOSIS LEG

S2200.101

- The Deep Vein Thrombosis (DVT) package for Victoria® features:
- A replaceable DVT left leg including edema, erythema, and palpable cordlike venous segments on the anterior and lateral leg
- Includes a preprogrammed drug library of anticoagulation regimens, including blood thinners, such as Heparin, unfractionated Heparin, low molecular weight Heparin, and Warfarin, and thrombolytics, such as Alteplase.

MODIFIED PHILLIPS® DEFIBRILLATION CABLE

S2200.126

- Adapter cable to connect Phillips defibrillator to Victoria defib site studs

MODIFIED PHYSIO-CONTROL® DEFIBRILLATION CABLE

S2200.127

- Adapter cable to connect PHYSIO-CONTROL® defibrillator to Victoria defib site studs

MODIFIED ZOLL® DEFIBRILLATION CABLE

S2200.128

- Adapter cable to connect ZOLL® defibrillator to Victoria defib site studs

REAL CO2 EXHALATION

S2200.078

- Real and measurable EtCO2
- 10 programmable levels of CO2 output
- Portable design allows continuous monitoring during transport.



VICTORIA® S2200 | Nursing and Gynecology Training

NURSING AND GYNECOLOGIC PACK

S2200.234

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 cervixes
- 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 cervixes with patent os
- 6 Non-patent cervixes including 1 normal parous and 5 abnormal cervixes
- 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 cervixes, including 1 normal parous and 5 abnormal cervixes

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

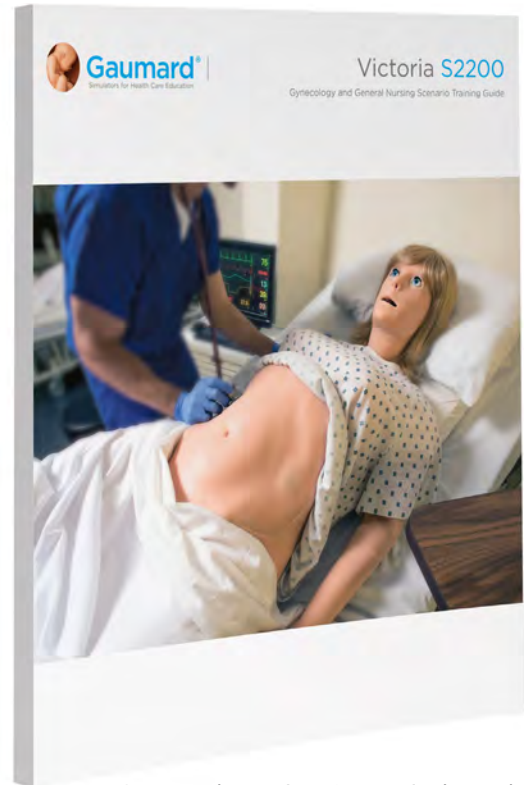
S2200.117

Perineum assembly including integrated vagina, rectum, and bladder

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 cervixes, 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



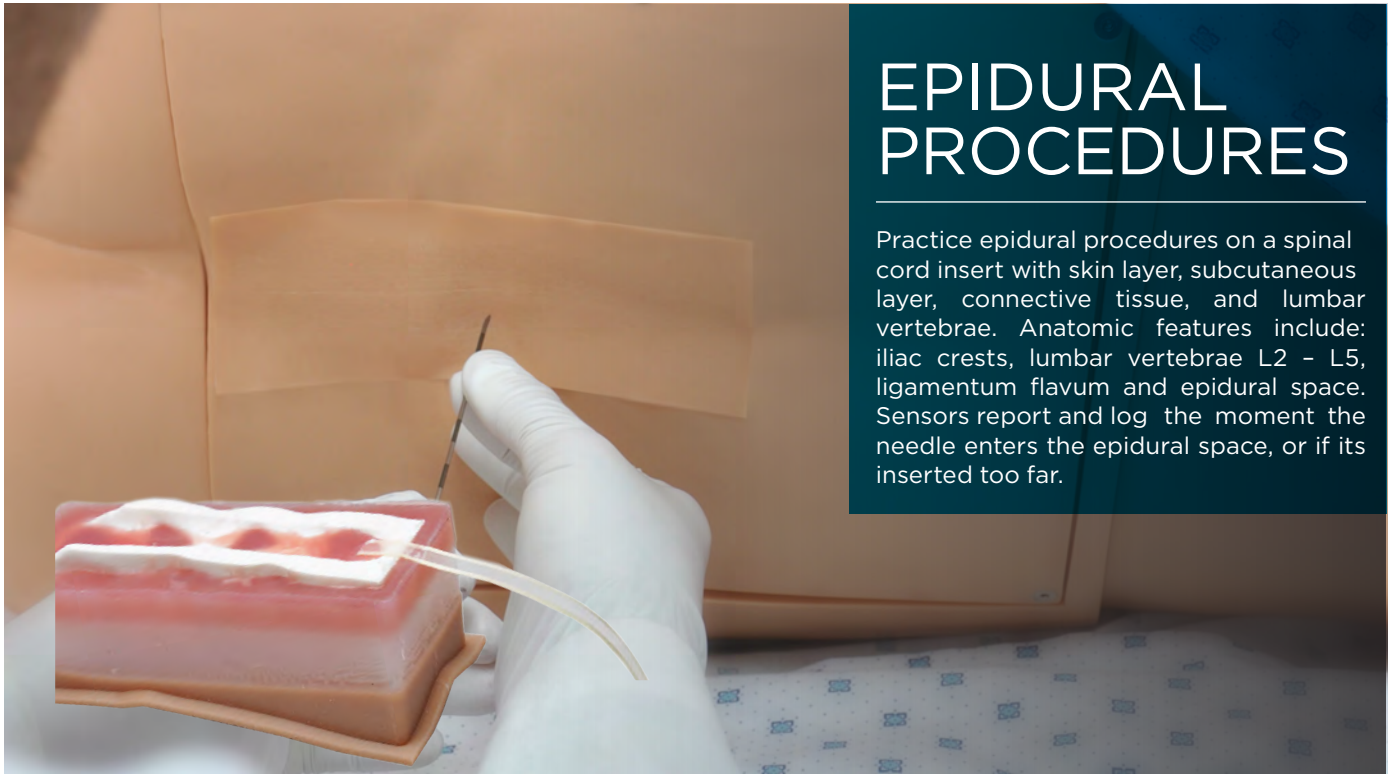
Programmable bowel sounds



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.



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 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.



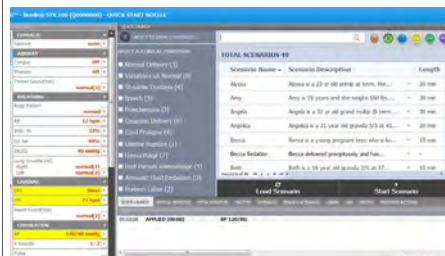
REALISTIC FETAL PALPATION

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 gets 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.



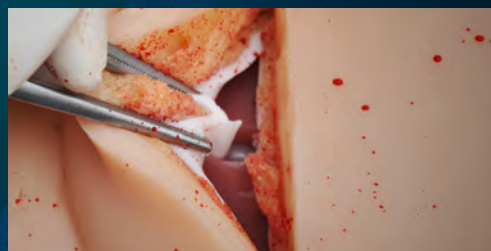
DYSTOCIA MANAGEMENT

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.



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.



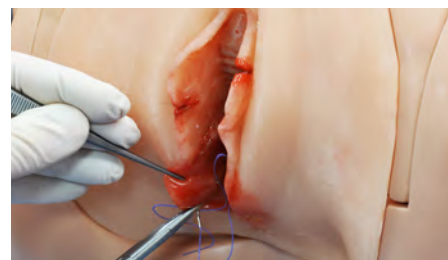
LIFELIKE BIRTH CANAL

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 that can be sutured repeatedly. 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 sutures 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 train for 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

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

The S3009 Premie HAL is a wireless preterm baby designed for lifelike simulation in the NICU, or in transit inside an isolette. Train for the treatment of premature infant care 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 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.

Clear	Save	Load				
Breathing...						
Respiration Rate 13 bpm						
Cardiac...						
Heart Rate 80 bpm						
NOW	10 sec	30 sec	1 min	2 min	5 min	10 min

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 easily transport NOELLE like a real patient.



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 a real OSAT monitor, BP cuff, defibrillators or external cardiac pacemakers.

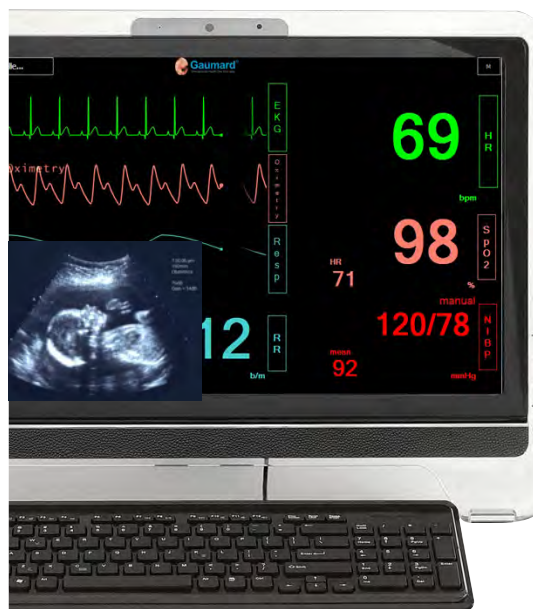
ADVANCED OBSTETRIC SIMULATION | *Interactive Maternal & Fetal Monitors*

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 helpful in identifying and managing 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, SpO2, SvO2, RR, EtCO2 temperature, and time
- Customize each trace independently; users can set alarms, and time scales
- 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, SvO2, respiration, capnography



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



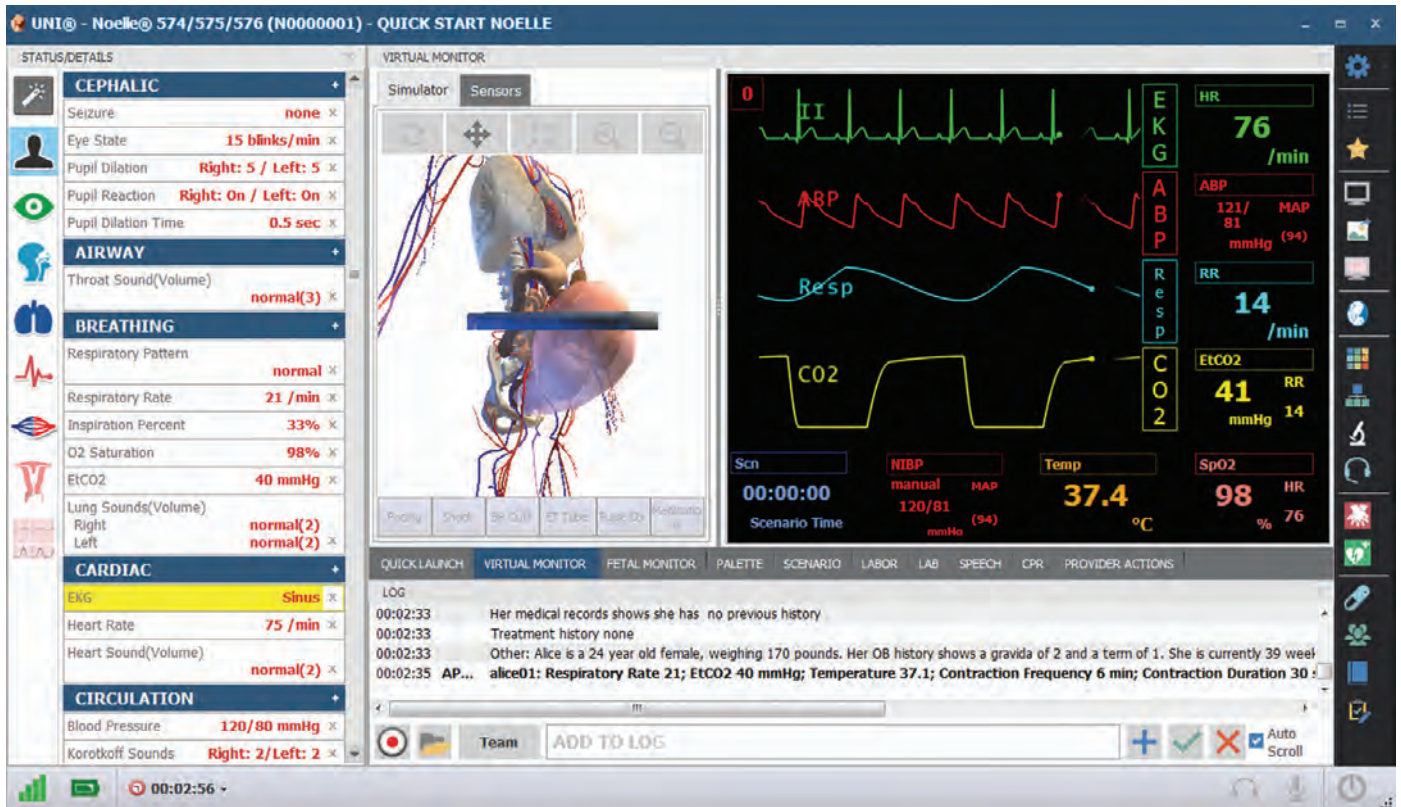
Optional 12in touchscreen tablet to display vital signs

INTERACTIVE PERINATAL MONITOR

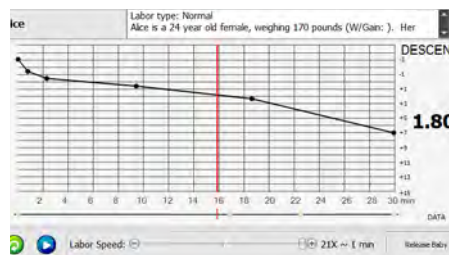
The perinatal monitor lets the participants monitor:

- 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





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



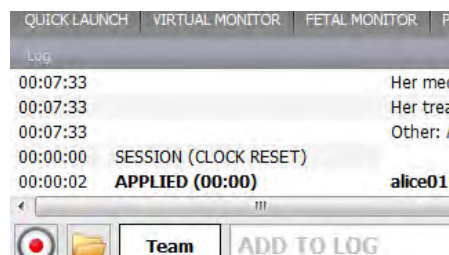
LABOR CONTROL AND DESCENT CURVE
Define labor variables such as: labor duration, delivery position, contraction response, and much more. Descent Curve graph defines the position of the fetal head relative to the ischial spines.



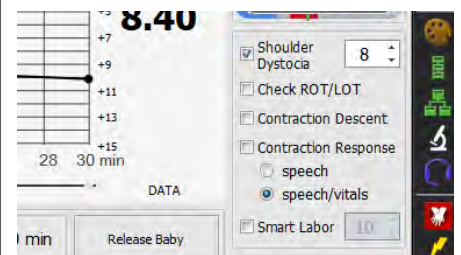
PERINATAL MONITOR
Easy instructor access to the dynamic Perinatal Monitor right from the tablet PC.



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.

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, a completely configurable vital signs monitor, activities log, perinatal monitor and labor curve.



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 deliveries as well as those taking hours
- 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 exactly the same scenario
- Save and share scenarios and results for use later
- 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 are 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
- Head cover 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 wave form 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 to show virtual dynamic ECG rhythms for each of the 12 leads

MATERNAL 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
- 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 caregivers 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, 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 position in 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 simulator can be controlled and intervention 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 responds 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

NOELLE

\$574.100

NOELLE *with Newborn HAL*

\$575.100

NOELLE *with Premie HAL*

\$576.100

Patented; other patents pending

OPTIONAL ADD-ONS

**D/C VIRTUAL MONITOR
ADDITIONAL 12IN TOUCH SCREEN
TABLET TO DISPLAY VITAL SIGNS**

\$575.100.002

**AUTOMATIC PHYSIOLOGIC CONTROL
MATERNAL AUTOMATIC MODE**

\$575.100.600

- Interactive maternal/fetal/neonatal model
- Intuitive interface and automaticity makes simulation easy
- Links maternal conditions with that of her fetus; fetal condition changes in real time on monitor
- Fetal conditions determine newborn's initial APGAR score
- 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

**AUTOMATIC DRUG RECOGNITION
SYSTEM MATERNAL DRUG RECOGNITION
SYSTEM (includes automatic mode)**

\$575.100.400R

- 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
- Physiologic models update simulated vital signs monitors
- Additional packs of 20 syringes with tags available
- Supplied with easily replaceable veins

**Feature not available with Premie HAL



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, CO2, SpO2, 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 setup and run each MOES™ scenario with our introduction, setup and quickstart videos.

MOES™ SCENARIOS PRE-PACKAGED INTO UNI™ SOFTWARE

Obstetric emergency scenarios pre-installed in 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. Her prenatal course has been complicated by AMA 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

- Full term 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 upon 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, CO2, SpO2, temperature, NIBP, and time
- Select up to 5 dynamic waveforms including ECG II, ABP, respiration, CO2, 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

WIRELESS KEYPADS

S555.100.310

Patented; other patents pending



NOELLE® S554.100

Maternal and Neonatal Birthing Simulator

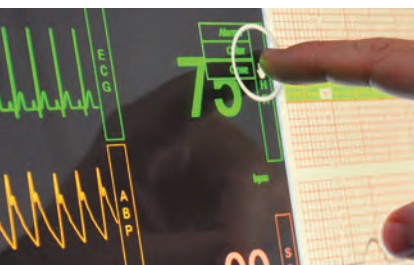


Full-size NOELLE® maternal and neonatal birthing simulator with precision delivery system for repeatable, rapid delivery as well as those taking hours



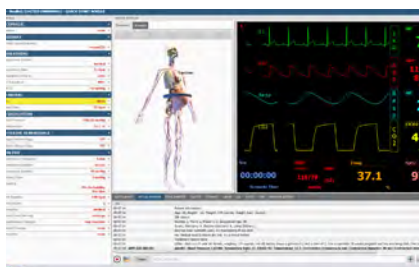
NEWBORN WITH CYANOSIS & PULSES

Full term intubatable newborn with pulses and cyanosis



TOUCHSCREEN PATIENT MONITOR

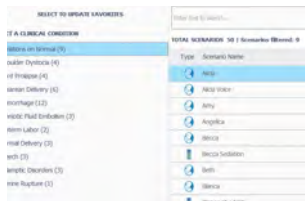
Communicates wirelessly to laptop. Displays up to 8 values including HR, ABP, RR, CO2, SpO2, temperature, NIBP and time.



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.



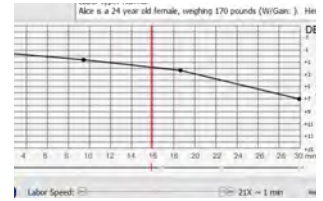
AUTOMATED DELIVERY

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



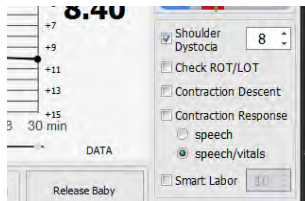
PRECISE SCENARIO REPEATABILITY

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.

Spont. Abortions: 0, Elective Abortions: 0, Livi
She has been currently using no medications
Her medical records shows she has no previous
Treatment history none
Other: Alice is a 24 year old female, weighing :
:00) alice01: Respiratory Rate 21; EtCO2 40 m
:00) alice02: Contraction Frequency 4 min; Cor
:00) alice03: Respiratory Rate 23; O2 Saturati
:00) alice04: Heart Rate 70; Respiratory Rate

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
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- 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, CO2, SpO2, temperature, NIBP, and time
- Select up to 5 dynamic waveforms including ECG II, ABP, respiration, CO2, and pulse oximetry
- Monitors maternal and neonatal vital signs
- Perinatal monitor with programmable uterine activity and fetal heart rate

LAPTOP

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

OTHER

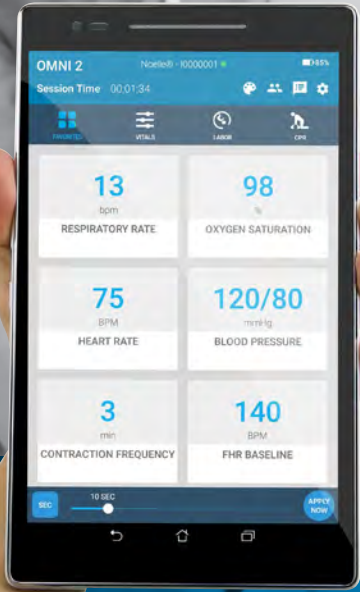
- Available in light, medium, and dark skin tones at no extra charge
- Simulator soft carrying case
- FCC, IC, CE Certifications
- One-Year Limited Warranty
- Extended warranty plans available



NOELLE®

S554.100

Patented; other patents pending



NOELLE[®] S550.100 with OMNI[®] 2

Birthing and Neonatal Training Solution

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

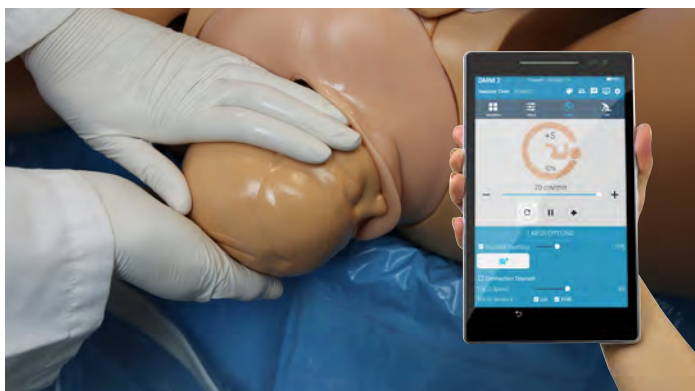
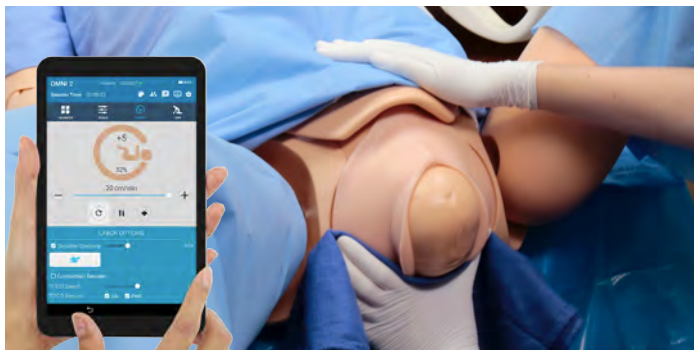
NOELLE® S550.100.250 with OMNI®2 | *Childbirth*

IMMERSIVE CHILD BIRTH 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 ventilations return visible cyanosis to healthy skin color
- Virtual patient monitor support



AIRWAY MANAGEMENT

Supports nasal/oral intubation and suctioning fluids



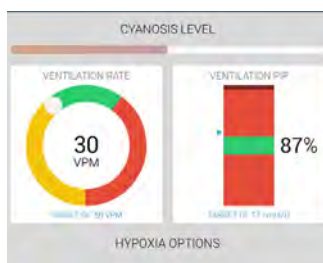
REAL-TIME CPR FEEDBACK

CPR quality monitoring and performance reports



UMBILICAL CATHETERIZATION

Arterial/venous access and palpable pulse



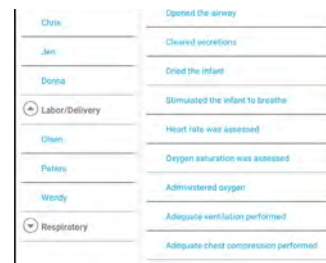
RESPIRATORY DISTRESS MODEL

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

NOELLE offers your teams a hands-on approach for training the identification, management and treatment of 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

Noelle Features	S550.100.250	S550.250	S551.250
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 vulva 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

NOELLE® S550.100.250 with OMNI®2 | Order Information

NOELLE WITH PEDI BLUE NEONATE AND OMNI 2

S550.100.250

PACKAGE CONTENTS

- NOELLE, Automatic Delivery 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.
- Training Guides
- NOELLE OMNI 2 Tablet
- PEDI® Blue Neonate (S320.100.250)
- PEDI® Blue OMNI 2 Tablet
- Virtual Patient Monitor PC
- 1-Year limited warranty



NOELLE® WITH NEONATAL CARE TRAINER AND OMNI 2

S550.250

PACKAGE CONTENTS

- NOELLE, Automatic Delivery 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.
- Training Guides
- NOELLE OMNI 2 Tablet
- Full-body Neonatal care trainer (S550.977)
- 1-Year limited warranty



NOELLE® WITH OMNI 2

S551.250

PACKAGE CONTENTS

- NOELLE, Automatic Delivery 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.
- Training Guides
- NOELLE OMNI 2 Tablet
- 1-Year limited warranty



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

ACCESSORIES AND OPTIONS

VIRTUAL PATIENT MONITOR PC

S550.250.001.R2



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

IV TRAINING ARM FOR PEDI BLUE

S320.100.250.803.IV

- Right arm IV access
- Manual brachial and radial

PALPATION ABDOMINAL COVER

S550.250.009.R2



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

I/O LEG FOR PEDI BLUE S320.100.250

S320.100.250.702R

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

CESAREAN ABDOMINAL COVER

S550.250.007.R4



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

WORKBOOK OF OB/GYN SIMULATION

B510

Competency-based scenario workbook designed to enhance learning in high-risk obstetrics, gynecology, and more.

NOELLE® S550.100 | Maternal and Neonatal Birthing Simulator



NOELLE® MATERNAL BIRTHING SIMULATOR WITH PEDI® BLUE NEONATE

Gauvard® childbirth simulators have been 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 cervixes
- 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 cervixes
- Two umbilical clamps
- Three vulva for postpartum suturing
- International power supply 100-240 VAC
- Talcum powder and silicone lubricant
- NOELLE® training guide
- NOELLE® Teaching Tips with carrying bags

NOELLE®

\$550.100

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



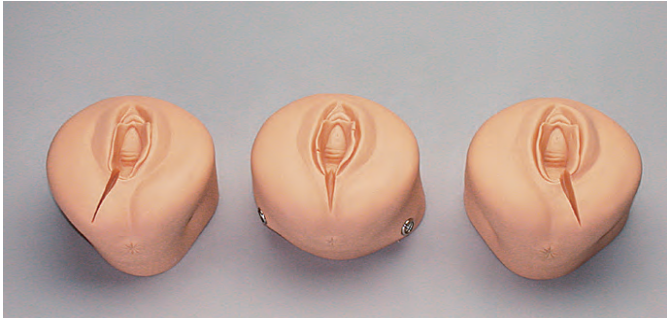
Monitor ventilations and chest compressions with Omni® Code Blue® pack



Birthing mechanism and birthing baby



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



Episiotomy module supplied with the S550.100



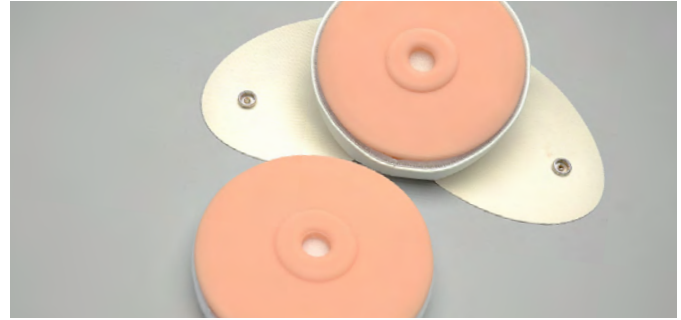
Cynthia illustrates a shoulder dystocia scenario with “turtle sign.” The student must recognize the problem and deliver the baby using suprapubic pressure, McRobert’s Maneuver, or posterior arm sweep



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 / S552.935

- Realistic cervical dilation
- Set of two
- Durable construction



NOELLE S550 BIRTH CANAL UPGRADE

S550.100.971

S550.971

S551 / S552.971

- One lifelike birth canal
- Unparalleled realism
- One adapter sleeve

NOELLE® S550 and S551 | Maternal and Neonatal Birthing Simulator



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 cervixes
- 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 cervixes
- Two umbilical clamps
- Two vulval inserts
- Three vulva 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

S551 (NOELLE ONLY)

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



Perform eCPR on maternal and neonatal simulators using OMNI® controller



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® 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

NOELLE® BIRTHING TORSO with OMNI 2

S552.250

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



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



Repeatable fetal presentation, rotation, and descent



Practice shoulder dystocia delivery techniques



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



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 cervixes
- Practice postpartum suturing on vulval inserts
- Practice Leopold Maneuvers

INCLUDES

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

NOELLE® BIRTHING TORSO with OMNI 1

S552

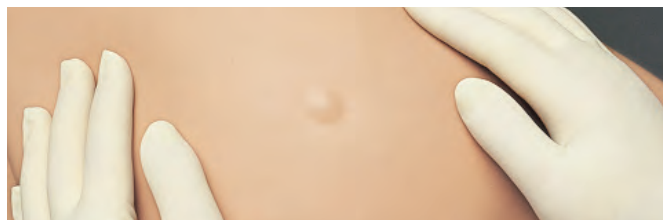
Patents 6,503,087 and 7,114,954



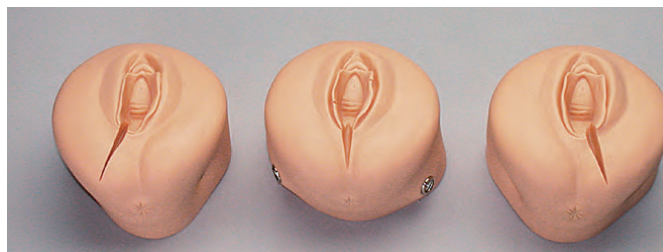
Articulating fetus is ideal for abdominal palpation



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 teaching 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



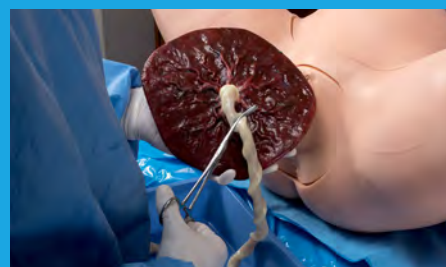
Removable abdomen offers an internal view of the birth

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



OBSTETRIC EMERGENCIES

OB SUSIE can illustrate realistic shoulder dystocia situations to train advanced delivery maneuvers, teamwork, and communication.

- McRobert's maneuver
- Suprapubic pressure
- Rubin
- Wood's 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

Train 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

The OB SUSIE Childbirth Torso includes everything to get started in one easy-to-use package.



TORSO FEATURES

- Adult-sized lower torso: diaphragm to quadriceps
- Smooth and supple skin
- Removable pregnant abdominal cover
- Modular cervix and birth canal
- Bony landmarks including ischial spines and coccyx
- Lifelike placenta with detachable fragments
- 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
- Blood and urine fill kits

PPH MANAGEMENT PACKAGE

S500.300.117

The PPH Management Package enables the training of postpartum care and emergency management skills.



FEATURES

- Realistic post-delivery perineum
- Uterine tamponade placement
- Adjustable uterine tone
- Urinary bladder catheterization
- Suppository administration

PACKAGE CONTENTS

- PPH Perineum
- Boggy Uterus
- PPH Cervix
- Blood concentrate

DELIVERY ASSIST MECHANISM

S500.300.929

The Delivery Assist Mechanism manual lever makes controlling descent and rotation virtually effortless.



FEATURES

- Controlled descent
- Fetal rotation control
- Hold during descent

PACKAGE CONTENTS

- Birthing mechanism
- Rear panel
- Fasteners set

POSTPARTUM EPISIOTOMY SUTURE TRAINER

S500.300.133

The episiotomy repair trainers simulate human tissue and support the use of real sutures and instruments.



FEATURES

- Realistic soft skin
- Supports real sutures
- Durable self-healing skin

PACKAGE CONTENTS

- Mediolateral left episiotomy perineum
- Midline episiotomy perineum

COMING SOON - EARLY 2017

- Postpartum 4th degree suture trainer
- Cervical Dilatation and effacement trainer
- Leopold's and version (ECV) trainer
- C-section delivery package



OBSTETRIC BIRTHING TORSOS

Maternal and Neonatal

MATERNAL AND NEONATAL | *Birthing Torsos*

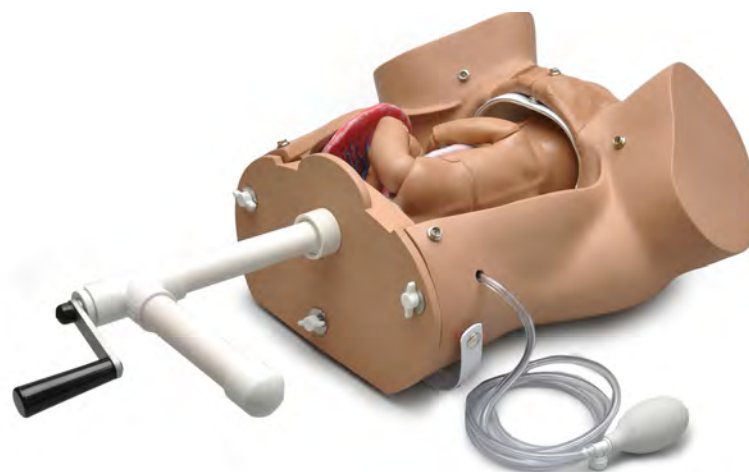
ADVANCED OB SUSIE®

\$500.200



OB SUSIE®

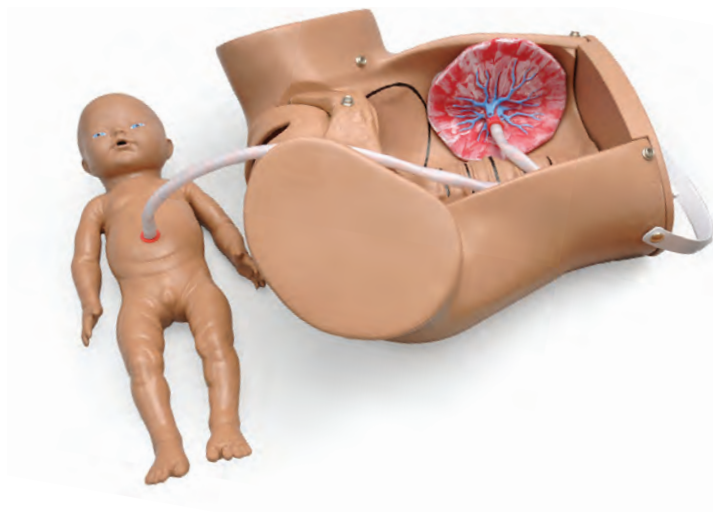
\$500.100



ORIGINAL CHILDBIRTH SIMULATORS

Original SIMA Models®

\$500



ADVANCED OBSTETRIC SUSIE® | S500.200

A versatile simulator using durable elements proven in 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 cries, grunting, and stridor
- Vertex or breech deliveries
- Vacuum augmentation or forceps assisted deliveries
- Replaceable vulval inserts and highly distensible cervixes
- Two removable abdominal covers: one transparent and one opaque
- Fetus with elevating pillow for practicing Leopold maneuvers

ADVANCED OB 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 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, grunt, or stridor sounds.

OBSTETRIC SUSIE® | S500.100

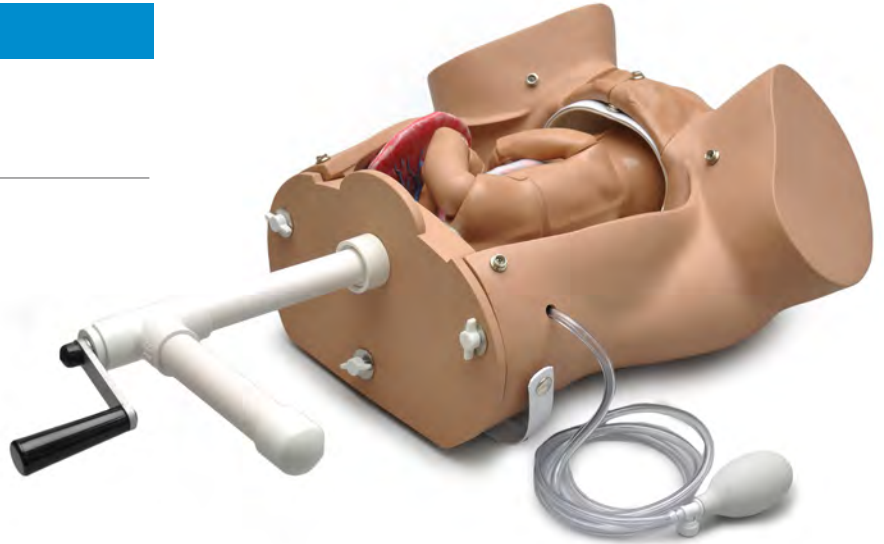
OB SUSIE®

S500.100

Patent 6,503,087

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 cervixes
- 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

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 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

ORIGINAL CHILDBIRTH SIMULATOR®

S500

A SIMA Models® Original

This versatile childbirth simulator not only provides an excellent simulation of the normal delivery experience for the student and educator, but also provides instruction in abnormal and multiple deliveries. It may be used for demonstration of the following obstetric procedures:

- Normal vaginal delivery
- Complete, frank, and footling breech birth
- C-section delivery
- Ritgen's maneuver
- Episiotomy
- Vertex presentation
- Intrauterine manipulation
- Vertex/vertex, vertex/breech, breech/vertex, or breech/breech presentation in multiple birth
- Prolapse of umbilical cord
- Demonstration of placenta previa: total, partial, and marginal
- Normal delivery of umbilical cord and placenta
- Palpation of fetal fontanelles



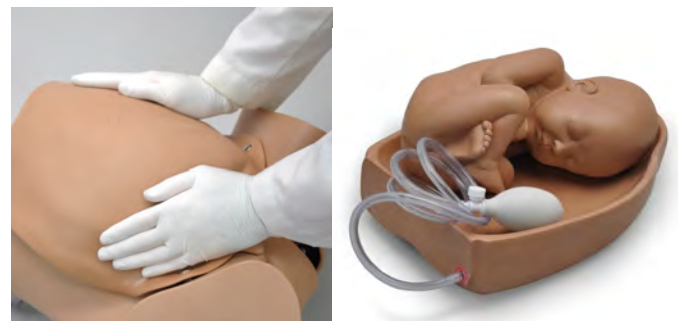
FEATURES

- 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

- 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

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

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 peri-urethral 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

FEATURES

- Smooth, soft skull with fontanelles for realistic vacuum delivery



LABOR DELIVERY MODULE

S500.4

- 6 labor stations selected to represent conditions of the cervix and vagina prior to labor, during labor, and at birth in a primigravid woman
- Stations may be placed in birth canal of the S500
- Stations illustrated are: STA -5 prior to onset of labor; STA -4 cervix partially effaced; STA -3 cervix 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

FEATURES

- Removable end-plate for insertion of birthing mechanism
- Removable cervixes 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 cervixes
- Soft carrying bag
- Instruction manual

POSTPARTUM HEMORRHAGE PACKAGE

S500.8

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 SpO₂, EKG, capnography, NIBP, live pacing and defibrillation
- Infusion and sampling: scalp, hand, umbilicus (UVC/ UAC), and IO access
- Wireless and tetherless; up to 8 hr battery life

**Meet Super Tory®.
The World's Most Advanced
Neonatal Patient Simulator.**

Active limb motion, true ventilator support, monitorable vitals, and wireless mobility. These are just a few of the innovative new features which allow Super Tory to simulate complex pathologies and respond to intervention with unparalleled realism.

- Full-term newborn: 8 lbs. 21 in.
- Wireless and tetherless: up to 8 hour battery life
- Smooth and supple, full body skin
- Crying and grunting
- Programmable movement
 - » Blinking rate, eyes open/closed
 - » Mouth: gasping and clenching
 - » Arm, leg, wrist flexion and extension
 - » Seizures: single limb, unilateral, or whole body movement
- Dynamic lung compliance
- Heart and lung sounds and palpable pulses
- 10+ scenarios included



Cyanosis, jaundice, pink, and pallor



Pulses: fontanel, brachial, umbilical, femoral



UNI® Interface powered by Microsoft Surface

NEONATAL RESUSCITATION AND STABILIZATION



REAL MECHANICAL VENTILATOR AND PATIENT MONITOR SUPPORT



INTERNAL AND EXTERNAL CRITICAL CARE TRANSPORT



True-to-Life Neonatal Resuscitation and Stabilization Scenarios.

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

- Anatomically accurate oral cavity and airway
- Intubation depth and neck hyperextension/flexion detection
- Visible chest rise following guideline recommended flow, PIP, and PEEP values
- SpO2 and EtCO2 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, scalp, umbilicus, IO access



Continuous UAC/UVC infusion



Pre and postductal SpO2

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



A Leap In NICU Simulation. True Ventilator Support. And Much More.

The breakthrough respiratory system design in Super Tory accurately responds to mechanical ventilation support like a real newborn. 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 breathing

Super Tory features bilateral, midaxillary surgical sites for needle decompression and chest tube insertion exercises.

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

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



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 touch screen interface lets you quickly and easily adjust vital signs parameters 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 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 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 to our monthly webinar sessions and become a UNI expert.

GENERAL

- Age: Full term newborn
- Weight: 8 lbs.
- Length: 21 in.
- Tetherless and wireless; fully responsive during transport
- Wireless control at distances at 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 main stem 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): continuous infusion and sampling
- Bilateral IO tibial infusion

GASTROINTESTINAL

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

SUPER TORY®

S2220

Patented; other patents pending

Available skin tones 

PACKAGE CONTENTS

- Super Tory®
- Tablet PC preloaded with UNI®
- UNI® license
- Automatic Mode license
- Preprogrammed scenario library
- RF Communications module
- Battery charger
- Defibrillation adapter
- IV and urine bladder fill kit
- Scalp IV site inserts
- IO site inserts
- Pneumothorax inserts
- Umbilical cords
- Post cord detachment navel
- Medical tape
- CO2 adapter
- Carrying case
- User manual
- 1 year standard warranty
- 2, 3, 5 year warranty plans available

OPTIONS

20" ALL-IN-ONE TOUCHSCREEN VIRTUAL PATIENT MONITOR

S2220.001.R2

12" PORTABLE TOUCHSCREEN VIRTUAL PATIENT MONITOR

S2220.002

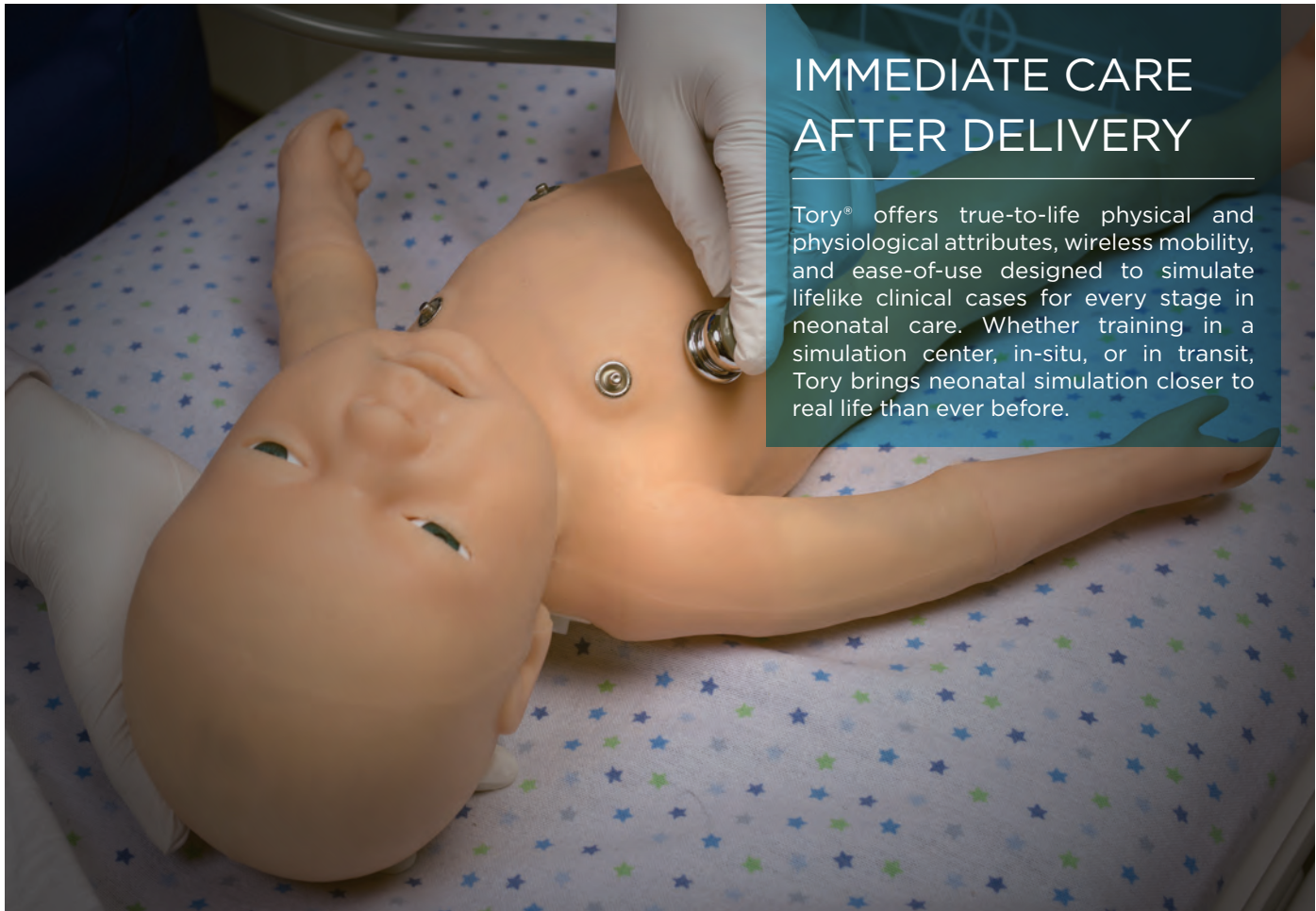
NEONATAL STABILIZATION SCENARIO PACKAGE AND GUIDEBOOK BASED ON THE S.T.A.B.L.E.® PROGRAM CURRICULUM

CD100

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, EtCO₂, and O₂ 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 CO₂ exhalation
- Hypoxia modeling



REAL CO₂ EXHALATION

Tory exhales real and measurable CO₂, thus capable of simulating a broad range of cardiopulmonary responses. Now participants can train to interpret and manage abnormal levels of EtCO₂ using a real capnometer to improve response time and reduce risk in live situations. Tory's CO₂ exhalation system is small and portable, allowing continuous monitoring during transport.

Monitor heart rate, respiration, and EtCO₂ using your native monitoring devices

ETCO₂ TRAINING BENEFITS

- Improve recognition and diagnosis of life threatening conditions related to abnormal EtCO₂ including respiratory distress, apnea, cardiac arrest, and shock
- Improve recognition and management of hypo and hyperventilation using breath-to-breath ventilation data
- Train to confirm endotracheal intubation with every procedure
- Train to recognize inadvertent extubation or “false negative endotracheal intubation” due to compromised pulmonary blood flow
- Improve management of full arrest, by learning to monitor perfusion during compressions in real time and identifying return of spontaneous circulation (ROSC)

REAL-TIME FEEDBACK

The eCPR™ interactive monitor and smart trainer allows 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 able to train device operation and interpretation to improve patient safety. Tory also features multiple IV access sites to engage the learners' cognitive, technical, and psychomotor skills. Our CD100 Neonatal Stabilization Scenario package based on The S.T.A.B.L.E.® Program curriculum offers validated educational material to improve neonatal resuscitation and stabilization.

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 lets 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 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 to our monthly webinar sessions and become a UNI expert.

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 main stem intubation
- Lung ventilations are measured and logged
- Programmable unilateral chest rise and fall
- Unilateral lung sounds synchronized with respiratory rate
- Real end-tidal CO2 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)
- UNI® License including 12 scenarios
- 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® PATIENT SIMULATOR

S2210

Patented; other patents pending

OPTIONS

20" ALL-IN-ONE TOUCHSCREEN VIRTUAL PATIENT MONITOR

S2210.001.R2

12" PORTABLE TOUCHSCREEN VIRTUAL PATIENT MONITOR

S2210.002

AUTOMATIC OPERATING MODE

S2210.600

NEONATAL STABILIZATION SCENARIO PACKAGE AND GUIDEBOOK BASED ON THE S.T.A.B.L.E.® PROGRAM CURRICULUM

CD100

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 and that can be at an accident scene, in an 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; just Newborn HAL and a Tablet PC wirelessly connected for 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

PREMIE/NEWBORN
/PEDIATRIC

Color change with conditions/interventions

Ventilations and compressions are measured and logged

Intubatable airway

Select independent lung sounds

Control rate and depth of respiration and observe chest rise

Umbilical catheterization and pulses

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



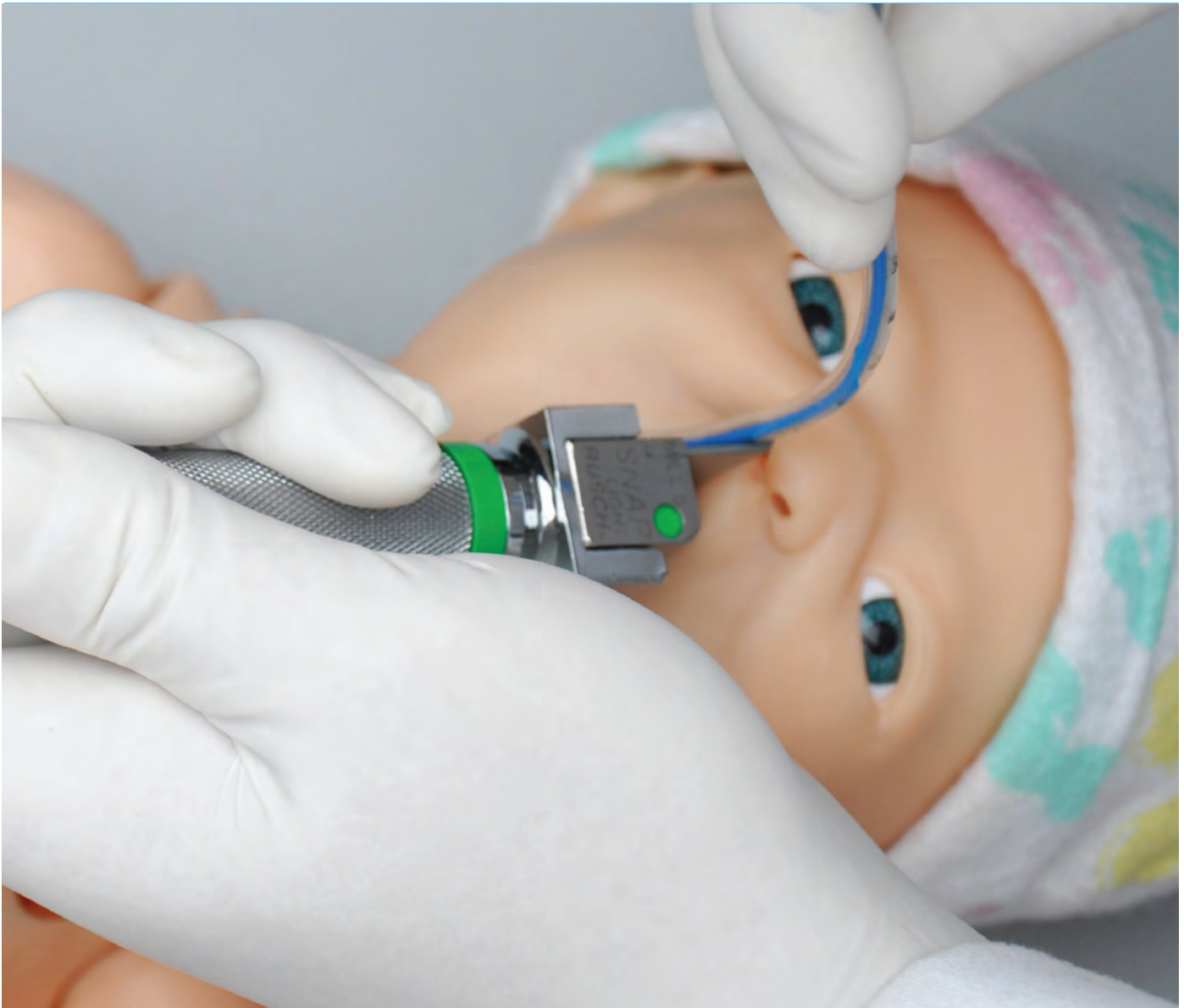
TETHERLESS
Control Newborn at distances up to 300 feet while he smoothly transitions between physiologic states in response to commands from a wireless tablet PC



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



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



INTRASOSEEUS ACCESS

Intrasosseous infusion and injection system with realistic tibia bones



ECG MONITORING USING REAL ELECTRODES

Newborn has conductive skin regions that allow the application of real electrodes to view ECGs with physiologic variations, allowing 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 activities log.
- 3D image can be rotated or enlarged; the skin removed and physiologic parameters accessed to change any elements 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.



<p>Scenarios link physiologic states</p>	<p>Hypoxic model responds to care provider actions</p>	<p>Track the actions of up to six care providers</p>



Optional 12" Touch Screen Tablet to display vital signs

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

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 time scales.
- 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

GENERAL

- Available in light, medium, and dark skin tones
- Tetherless and fully responsive even while being transported
- Powered from 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 wave form 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

Patented; other patents pending

20" ALL-IN-ONE TOUCH SCREEN PC TO DISPLAY VITAL SIGNS

S3010.001.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

12" TOUCH SCREEN PC TO DISPLAY VITAL SIGNS

S3010.002

REAL CO2 EXHALATION

S3010.078

- Real and measurable EtCO2
- 10 programmable levels of CO2 output
- Portable design allows continuous monitoring during transport.

AUTOMATIC MODE

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

NEONATAL STABILIZATION SCENARIO PACKAGE AND GUIDEBOOK BASED ON THE S.T.A.B.L.E.® PROGRAM CURRICULUM

CD100



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

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

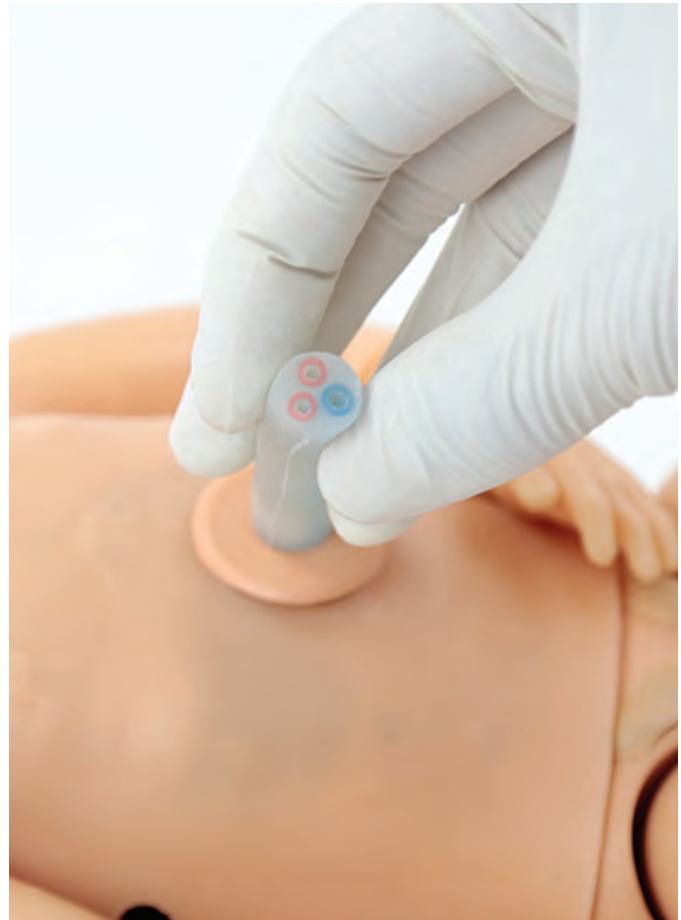
- Premie™ is fully responsive even when carried
- No tubes or wires to worry about

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 log



Silicone umbilicus with two arteries and one vein for UAC, UVC and cord cutting. Pulse synchronized with ECG.



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

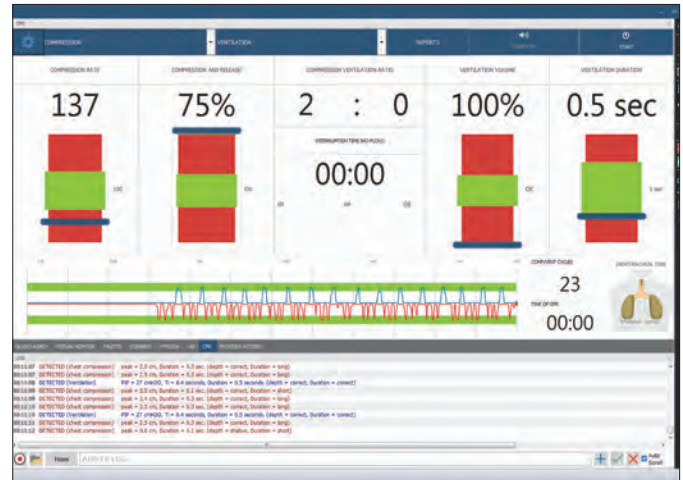
HAL® S3009 INCLUDES

- 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

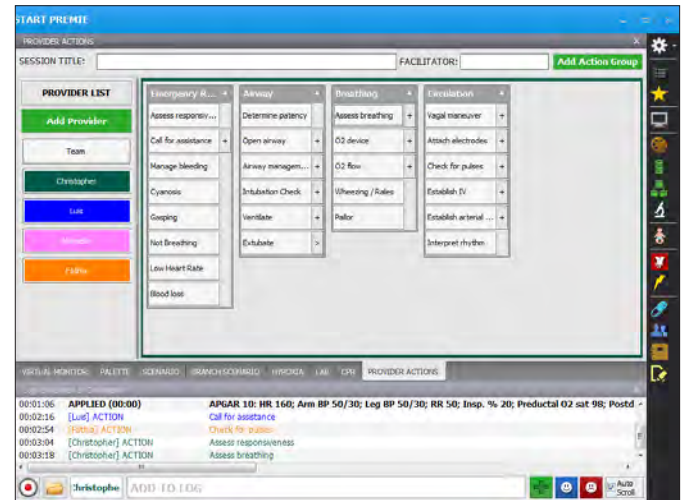
HAL®

S3009

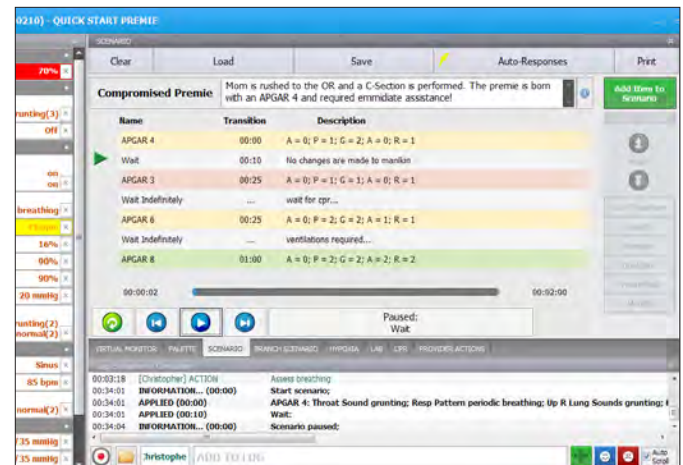
Patented; other patents pending



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.



OPTIONAL ADD-ONS

20" ALL-IN-ONE TOUCH SCREEN PC TO DISPLAY VITAL SIGNS

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

12" TOUCH SCREEN TABLET TO DISPLAY VITAL SIGNS

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 "PHYSIOLOGIC" 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



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

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 H2O

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

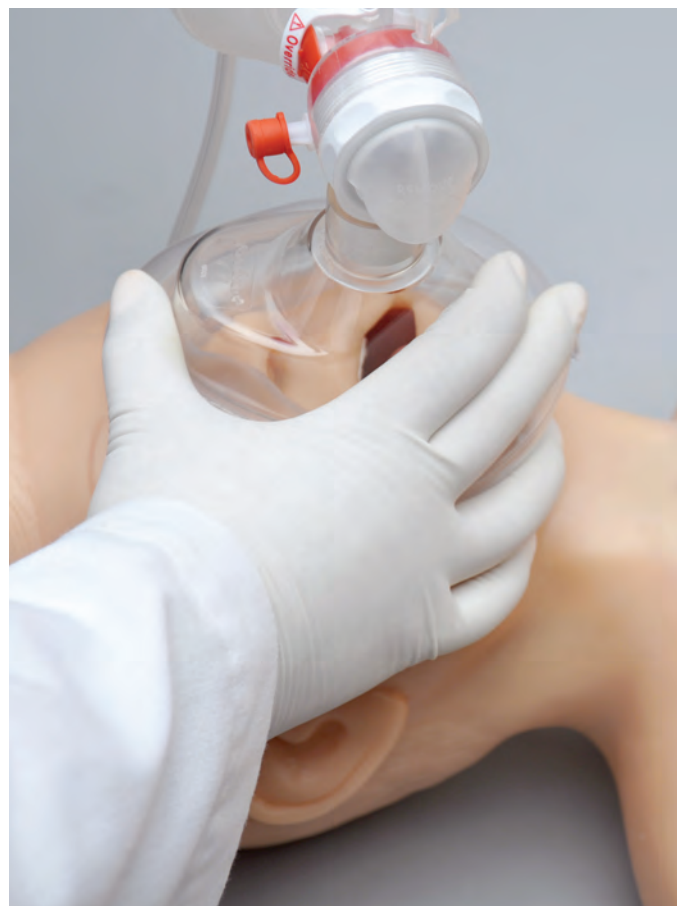
- Multiple heart sounds, rates and intensities
- Chest compressions are measured and logged
- Blood pressure can be taken using a cuff, palpation, or auscultation
- Korotkoff sounds audible between systolic and diastolic pressures
- Color and vital signs respond to hypoxic events and interventions
- 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 yet intuitive
- Use our scenarios, modify them or quickly create your own

ACTIVE EYES

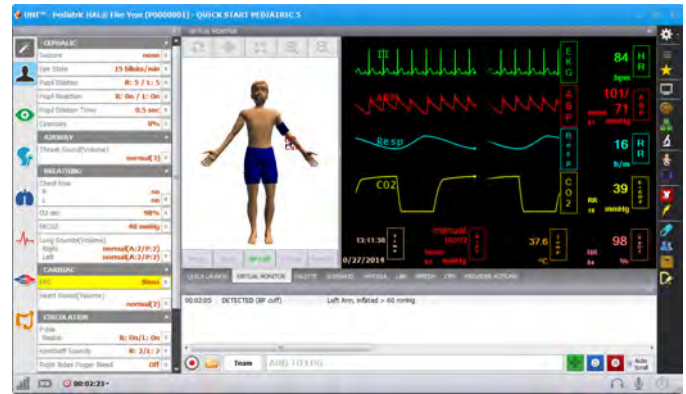
- Open and close
- Select blink rate
- Select pupillary responses to light



HAL® S3005 | Five Year Old Pediatric Simulator

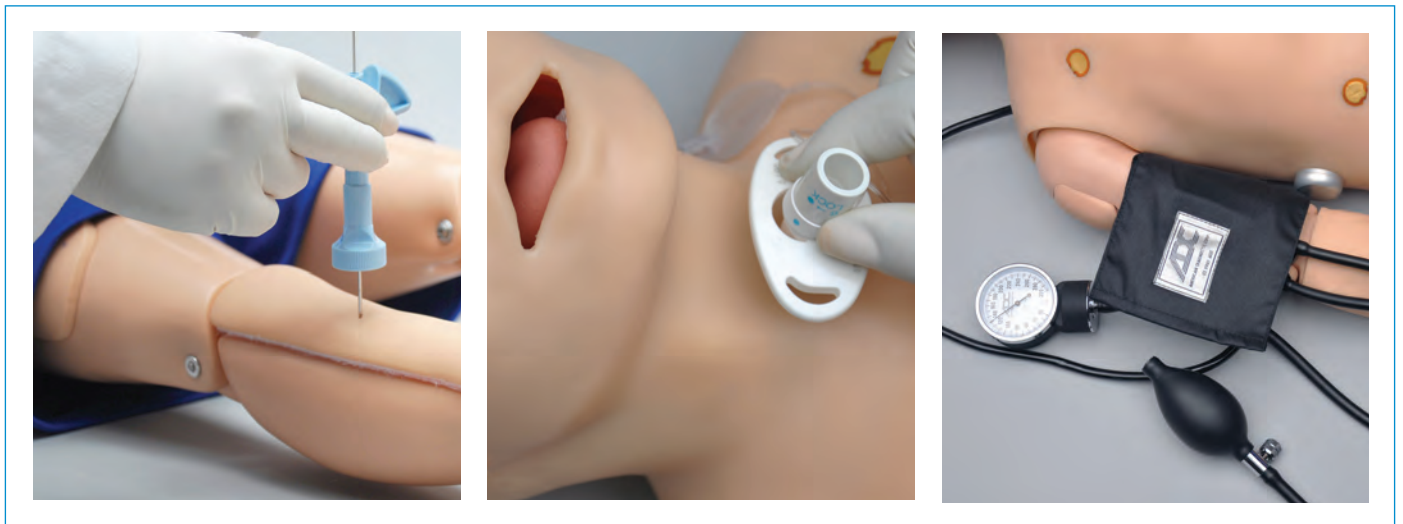
PREMIE/NEWBORN
/PEDIATRIC

- 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



Clear			Load			Save		
Girl w VTach			5 year old female with heart condition is weak pulse and diminished perfusion.					
Girl w VTach			+ Item			+ Path		
Girl V Tach	00:20	ventricular tachycardia, low BP, low ...						
Speech 1	00:01	complaint - Heart jumping						
Wait Indefinitely	...	Cardioversion expected...						
Speech 2	00:01	urgency - Ouch						
Girl slow sinus	00:40	HR 65, vitals start improving						
Girl V Tach	00:20	ventricular tachycardia, low BP, low ...						

- 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



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
- 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 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

Patented; other patents pending

OPTIONS

20" TOUCHSCREEN PATIENT MONITOR

S3005.001.R2

12" PORTABLE VIRTUAL PATIENT MONITOR

S3005.002

WIRELESS STREAMING AUDIO

S3005.300

AUTOMATIC MODE

S3005.600

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

REAL CO2 EXHALATION

S3005.078

- Real and measurable EtCO2
- 10 programmable levels of CO2 output
- Portable design allows continuous monitoring during transport.

Skin tones available at no extra charge

● Light ● Medium ● Dark

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 “hand-offs” are conducted. What is done well? 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; just Newborn HAL and a Tablet PC wirelessly connected for 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.

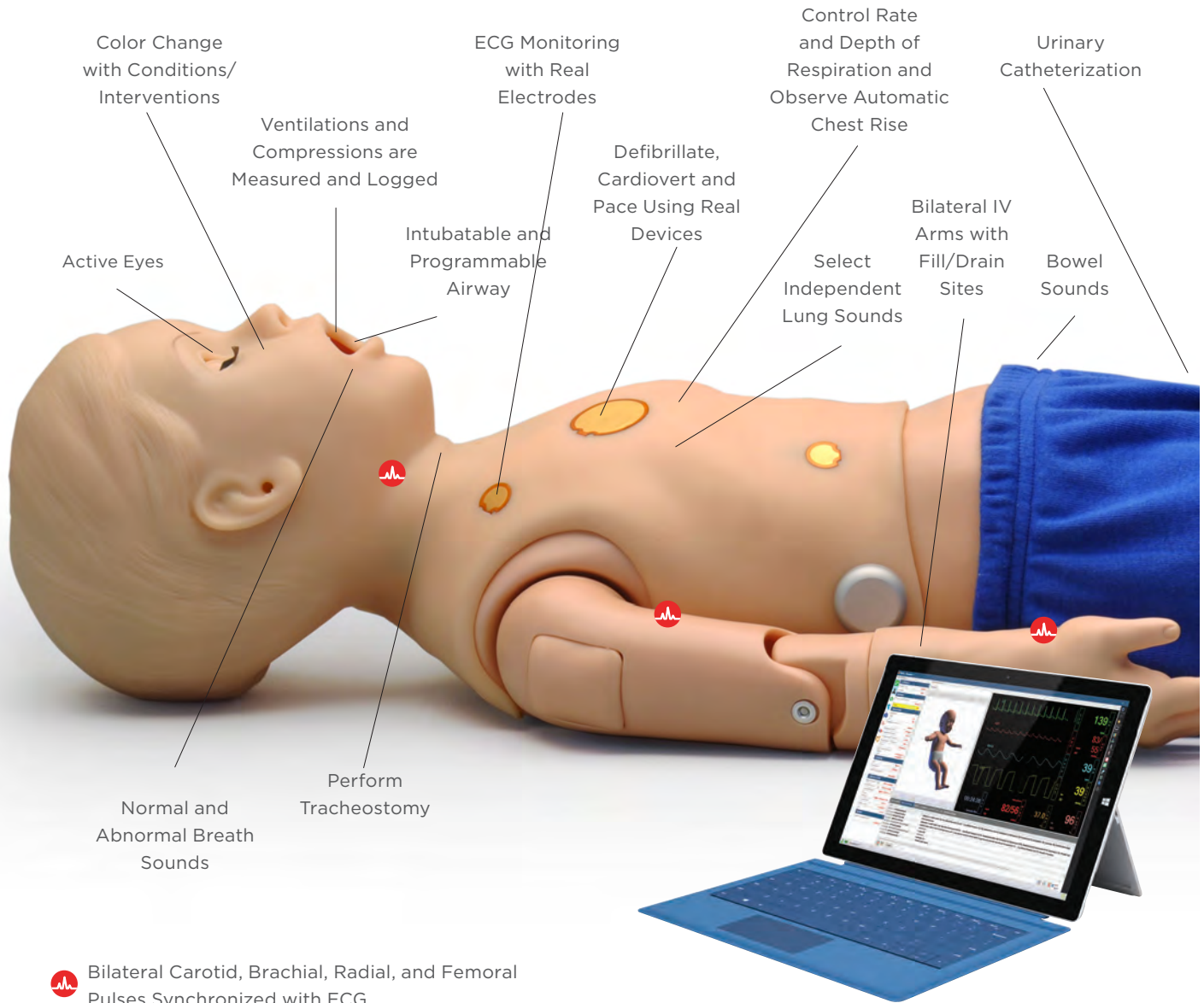


TABLET PC


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

HAL® S3004 | One Year Old Pediatric Simulator

PREMIE/NEWBORN
/PEDIATRIC

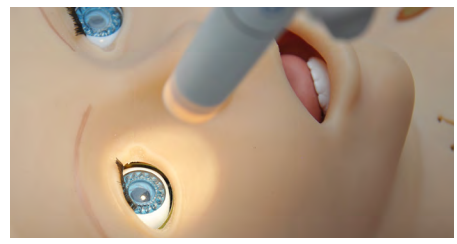


- Color Change with Conditions/Interventions
- Ventilations and Compressions are Measured and Logged
- Active Eyes
- Intubatable and Programmable Airway
- ECG Monitoring with Real Electrodes
- Defibrillate, Cardiovert and Pace Using Real Devices
- Control Rate and Depth of Respiration and Observe Automatic Chest Rise
- Urinary Catheterization
- Bilateral IV Arms with Fill/Drain Sites
- Select Independent Lung Sounds
- Bowel Sounds
- Normal and Abnormal Breath Sounds
- Perform Tracheostomy

 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 photo sensitive pupils. Dilation, reactivity, and blink rate can be controlled automatically or by the instructor.



DEFIBRILLATE, CARIOVERT AND PACE
HAL's electrically conductive skin regions allow the use of real equipment to obtain his ECG, perform temporary pacing, cardiovert, and defibrillate.



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 H₂O.



INTRAOSSIOUS 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

PREMIE/NEWBORN
/PEDIATRIC

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



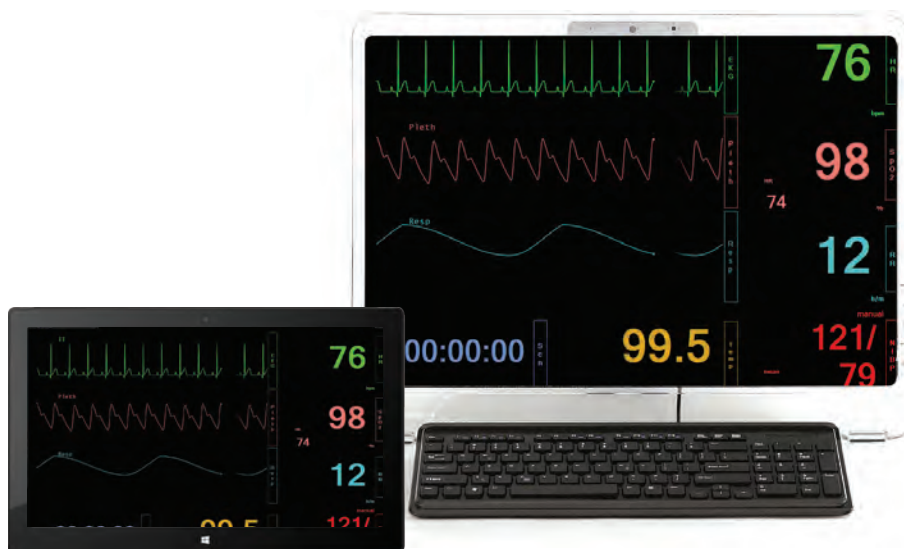
Hypoxic model responds to care provider actions

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 time scales.
- 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



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
- 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 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

Patented; other patents pending

OPTIONS

A/C VIRTUAL MONITOR

S3004.001.R2

MOBILE VIRTUAL MONITOR

S3004.002

WIRELESS STREAMING AUDIO

S3004.300

AUTOMATIC "PHYSIOLOGIC" CONTROL

S3004.600

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

REAL CO2 EXHALATION

S3004.078

- Real and measurable EtCO2
- 10 programmable levels of CO2 output
- Portable design allows continuous monitoring during transport.

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.

PROVEN RELIABLE

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

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.

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.

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.

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®, a multipurpose patient simulator for all your clinical training needs that's easy to use.



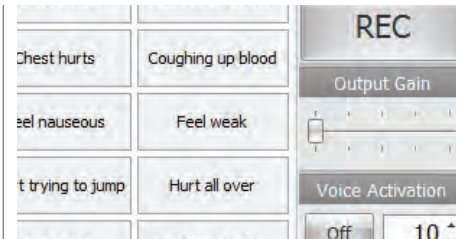
REACTIVE EYES, SEIZURES

HAL has blinking eyes with photo sensitive 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.



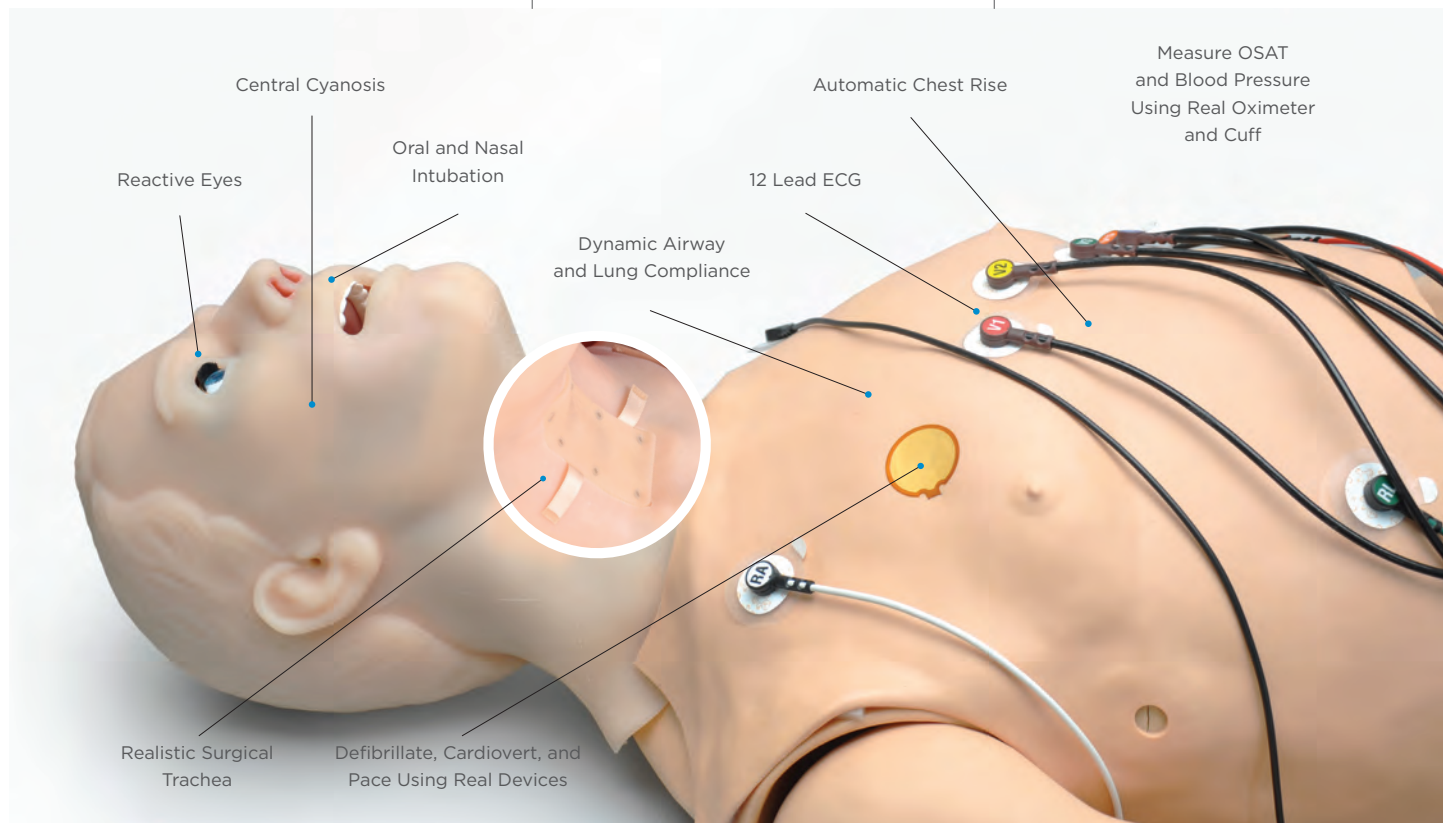
DEFIBRILLATION

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.



EMERGENCY & ADVANCED LIFE SUPPORT



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

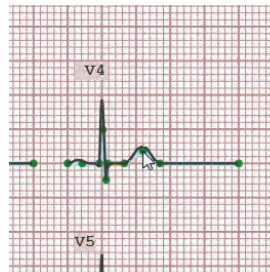
EMERGENCY &
ADVANCED LIFE
SUPPORT

- 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
- Gaspings
- 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



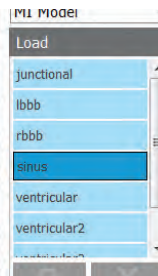
DYNAMIC AIRWAY AND LUNG COMPLIANCE

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 cmH2O 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.

HAL® S3201 | Advanced Multipurpose Patient Simulator

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

EMERGENCY & ADVANCED LIFE SUPPORT

<p>AUTOMATIC MODE</p> <p>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.</p>		<p>3D MYOCARDIAL INFARCTION</p> <p>Train to improve MI diagnosis, management, and prognosis. Simply point-and-click on the 3D heart to create an occlusion to auto-generate MI visible on a real 12-lead ECG reading.</p>	<p>eCPR™ MONITORING</p> <p>Monitor and assess CPR performance in real-time, simulate perfusion dependent on effectiveness, and export performance reports for debriefing.</p>
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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 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

HAL® S3201 | Advanced Multipurpose Patient Simulator

GENERAL

- Light, medium, and dark skin tone available
- Powered from 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
- CO₂ 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 H₂O
 - > Ten levels of airway resistance
 - > Holds PEEP from 5 to 20cm H₂O
 - > Exhales real and measurable CO₂
 - > 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

U.S. Patent 7,192,284; other Patents Pending
Skin tones available at no extra charge

● Light ● Medium ● Dark

OPTIONAL ADD-ONS

TRAUMATIC LEG AMPUTATION

S3201.004

TRAUMATIC ARM AMPUTATION

S3201.005

UPGRADE TO 12IN TABLET VIRTUAL MONITOR

S3201.003

CASUALTY WOUND KIT

WK120

EMERGENCY WOUND KIT

WK100

TRAUMA WOUND KIT

WK110

BURN WOUND KIT

WK105

DEFIB-PACING SNAPS

S3201.125

DEFIB-PACING SNAP HANDS FREE 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



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 a 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

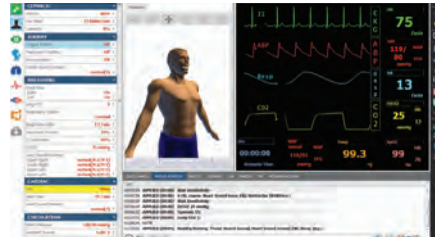
Since 2004 our industry-leading HAL series design and wireless technology has been proven effective and reliable by our users. The HAL S3101 is the evolution of the HAL S3000 design awarded a certificate of airworthiness by the US Army.

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

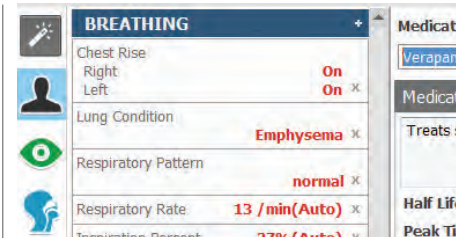
EMERGENCY &
ADVANCED LIFE
SUPPORT



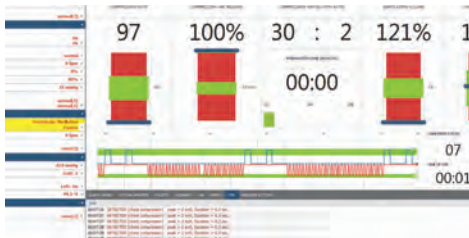
Wireless tablet PC and UNI® simulator control software is included. Control HAL from up to 300 meters away



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 over dosages, 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.

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 catheterization

HAL® S3101

S3101

HAL® is a registered trademark of Gaumard® Scientific. Patented; other patents pending

- Tetherless Adult Patient Simulator
- Wireless tablet PC; UNI license
- Automatic Physiologic Control license
- Preprogrammed scenarios library
- Battery charger, BP cuff, surgical trachea kit, pneumo. decompression sites, user guide.
- Patented; other patents pending
- One-Year Limited Warranty
- Extended warranty plans available

OPTIONAL ADD-ONS

REAL CO2 EXHALATION

S3101.078

dependent upon cardiac output
Use to evaluate effectiveness

12-LEAD ECG WITH MI MODEL

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.

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

20" TOUCHSCREEN PATIENT 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

12" PORTABLE VIRTUAL PATIENT 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

PHILIPS SNAP CABLES

S3101.126

PHYSIO LIFEPAK® SNAP CABLES

S3101.127

ZOLL® SNAP CABLES

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 catheterization

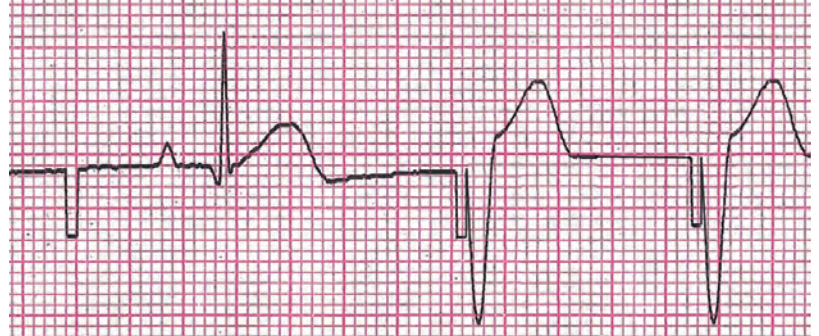
HAL® S3000 | A Proven Tetherless Simulator

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.

EMERGENCY &
ADVANCED LIFE
SUPPORT



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



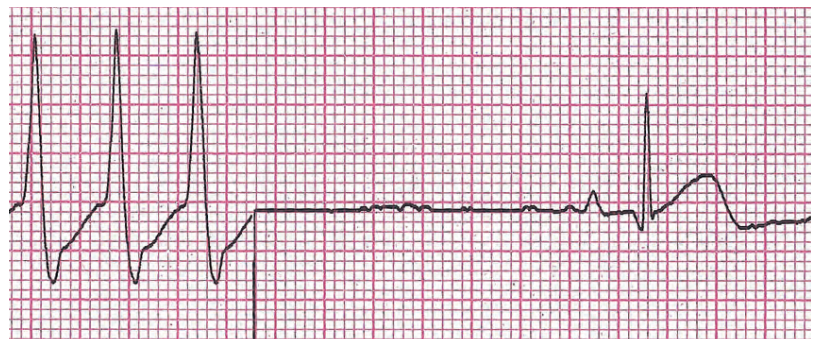
Attach AED pads directly to HAL's conductive skin. Your AED will display HAL's ECG, analyze his cardiac rhythm, and advise action



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

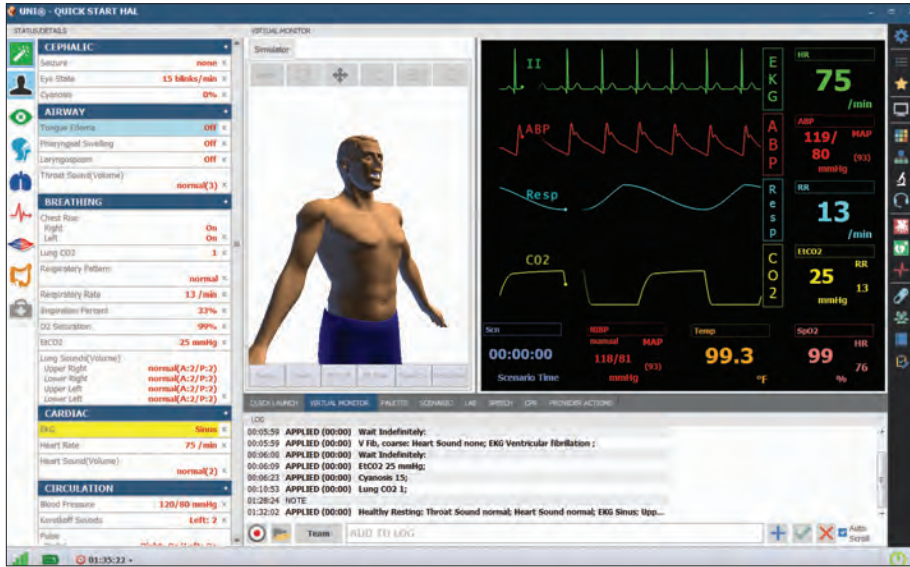


HAL® even distinguishes between defibrillation and synchronized cardioversion. Here a shock resolves pulseless ventricular tachycardia

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.



No annual operating license or software update fee. Keep your program's operating costs down year after year.

HAL® S3000

S3000

- 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

OPTIONAL ADD-ONS

WIRELESS STREAMING AUDIO

S3000.300

- Bidirectional digital voice and data communication

REAL CO2 EXHALATION

S3000.078

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

ADVANCED 12-LEAD ECG

S3000.120

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

AUTOMATIC PHYSIOLOGIC CONTROL

S3000.600

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

20" TOUCHSCREEN PATIENT MONITOR

S3000.001.R2

12" PORTABLE VIRTUAL PATIENT MONITOR

S3000.002

TRAUMATIC LEG/ARM AMPUTATION

S3000.004

S3000.005

CASUALTY, EMERGENCY, TRAUMA, BURN WOUND KITS

WK120

WK100

WK110

WK105

INTRAOSSUEOUS LEG

S3000.028

8 tibia, 75ml reservoir, Skin cover

Skin tones available at no extra charge

● Light ● Medium ● Dark

EMERGENCY & ADVANCED LIFE SUPPORT

HAL[®] S1000

Simulation Made Easy™

- Intubatable and Programmable Airway
- Defibrillate, Cardiovert, and Pace Using Real Equipment
- Real-time Performance Feedback
- Needle Decompression
- eCPR - CPR effectiveness monitoring and smart trainer
- Includes laptop PC
- Optional wireless tetherless configuration available



HAL® S1000 | ALS Simulation Made Easy™

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.



EMERGENCY &
ADVANCED LIFE
SUPPORT



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.



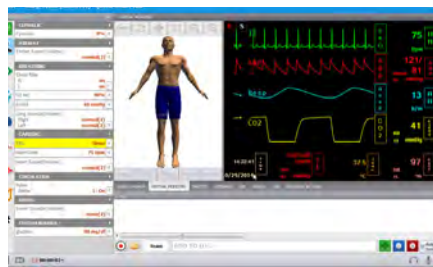
INTUBATABLE AND PROGRAMMABLE AIRWAY

Use NP/OP/ET/LMA tubes. Airway management techniques can be practiced, including BVM, and nasal/oral intubation. 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.



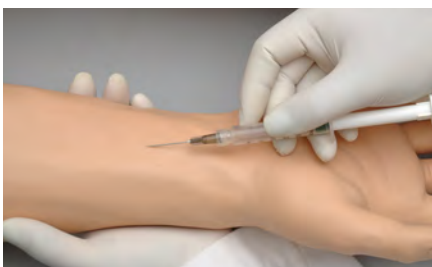
INCLUDES LAPTOP PC

HAL includes a 15in laptop PC. Change conditions such as heart rate and blood pressure immediately or specify smooth transitions.



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:



HAL® S1000

S1000

- 10 preprogrammed scenarios
- Includes 15in widescreen laptop PC
- Instructor control
- 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
- Accommodates 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
- Oxygen saturation placement detection using real monitors
- 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 including none, normal, borborygmus, diarrhea, hyperactive, irritable bowel syndrome, post-op, and ulcerative colitis
- Programmable central cyanosis
- ALS provider manual
- FCC, IC, CE

VIRTUAL MONITOR

S1000.001

- Extended monitor displays patient vital signs in real time
- Monitor HR, ABP, RR, CO2, SpO2, ETCO2, temperature, NIBP, and more
- Generate and display lab results for the providers to use
- Interactive interface features vital sign parameter alarms, customizable layouts, and file sharing

WIRELESS STREAMING AUDIO

S1000.300

- Via a headset, speak as the simulator’s voice and listen to the care providers respond to the simulator
- Record and store phrases in any language for playback

CO2 EXHALATION

S1000.078

- Enables real and measurable CO2 exhalation with every breath.
- 10 programmable levels of CO2 output
- Up to 90 minutes of CO2 exhalation per single CO2 cartridge
- CO2 system is mounted inside HAL for tetherless operation

URINARY CATHETERIZATION

S1000.070

- Internal fluid bladder and male genitalia for Foley catheterization exercises

WIRELESS & TETHERLESS OPTION

Our HAL® S1000 simulator is now available with our industry-leading tetherless technology. The Wireless Control allows for true care-in-motion scenarios, and the wireless tablet is ideal for providing visual and audio feedback to CPR trainees.

WIRELESS CONTROL

S1000.232

- Control HAL wirelessly
- Train team hand-offs and care-in-motion
- Proven RF wireless connectivity provides reliable communication for tetherless operability

TOUCH SCREEN TABLET

S1000.215

- Upgrade the control PC to a lightweight wireless tablet
- Pen and touch enabled UNI®
- Simulator Control Software
- Store your learning materials, presentations, and evaluations
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals

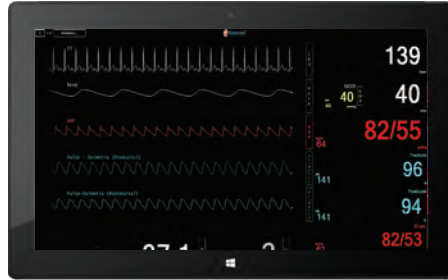
PATIENT SIMULATOR OPTIONS AND ACCESSORIES



20IN ALL-IN-ONE TOUCH SCREEN PC TO DISPLAY VITAL SIGNS

- 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

- S3101.001.R2**
- S3000.001.R2**
- S2000.001.R2**
- S3005.001.R2**
- S3004.001.R2**
- S3010.001.R**
- S3009.001.R2**
- S3040.100.001.R2**



12IN TOUCH SCREEN TABLET TO DISPLAY VITAL SIGNS

- 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
- D/C Virtual Monitor

- 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 ACTIVATION CODE

- 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**

PATIENT SIMULATOR OPTIONS AND ACCESSORIES

EMERGENCY &
ADVANCED LIFE
SUPPORT

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

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 CO2 EXHALATION OPTION

- The CO2 exhalation option adds real measurable ET/CO2 to your patient simulator. This feature allows learners to train using real capnography devices to improve assessment and management skills.
- The CO2 exhalation feature gives you programmable control of real CO2 gas on exhalation, detectable using your native sensors and monitors. ET/CO2 can be easily added to current or new scenarios to expand the scope and fidelity of your clinical cases. What's more, the CO2 hardware system is mobile and seamless, allowing simulation of patient handoffs and offering higher realism.



Real CO2 exhalation option is available for the following patient simulators:

VICTORIA S2200
S2200.078

TRAUMA HAL S3040.100
S3040.100

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
S2210.078

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



Automatic Drug Recognition System option price for S2000, S3000, S575.100, S574.100, and S576.100 includes arm hardware and Automatic Mode software license. HAL S3101 Automatic Mode license included with standard package, option adds arm hardware.

URGENT CARE

Emergency Care Simulators



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

S300.100

Laptop Included



CODE BLUE® III FIVE YEAR

S300.105

Laptop Included



CODE BLUE® III NEWBORN

S300.110

Laptop Included



EMERGENCY &
ADVANCED LIFE
SUPPORT

CODE BLUE® III FAMILY | ALS and Emergency Care Simulators

Code Blue® III S300.100 Resuscitation and Emergency Care Adult Simulator

Optional Virtual Patient Monitor



Built-in Compressor Allows for the Continuous Operation of Chest Rise and Pulses



Includes Control PC

EMERGENCY & ADVANCED LIFE SUPPORT

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:



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

EMERGENCY &
ADVANCED LIFE
SUPPORT

CODE BLUE® III ADULT

S300.100

Patented; other patents pending

- Realistic airway with tongue, visible vocal cords, trachea and esophagus
- Supports oral and nasal intubation using an endotracheal tube, Laryngeal Mask Airway, Combitube, and more (NP/OP/ET/LMA/LT)
- 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
- Genuine Windows® laptop
- UNI® Unified Simulator Control Software
- Wired USB communication module

Skin tones available at no extra charge

● Light ● Medium ● Dark

VIRTUAL MONITOR

S300.100.001

- Extended monitor displays patient vital signs in real time including HR, ABP, RR, CO2, SpO2, ETCO2, temperature, NIBP, and more
- Generate and display lab results for the providers to use
- Interactive interface features vital sign parameter alarms, customizable layouts, and file sharing

TETHERLESS CODE BLUE III OPTIONS

Our Code Blue III simulators are now available with our industry-leading tetherless technology. The Wireless Control option allows for true care-in-motion scenarios, and the wireless tablet is ideal for providing visual and audio feedback to CPR trainees.



WIRELESS CONTROL UPGRADE

- Train team hand-offs and care-in-motion
- Proven RF wireless connectivity provides reliable near-field communication for tetherless operability

S300.100.232

LIGHTWEIGHT TOUCH TABLET

- Upgrade the control PC to the lightweight wireless tablet
- Pen and touch enabled UNI® simulator control software
- Store your learning material, presentations, and evaluation in one device

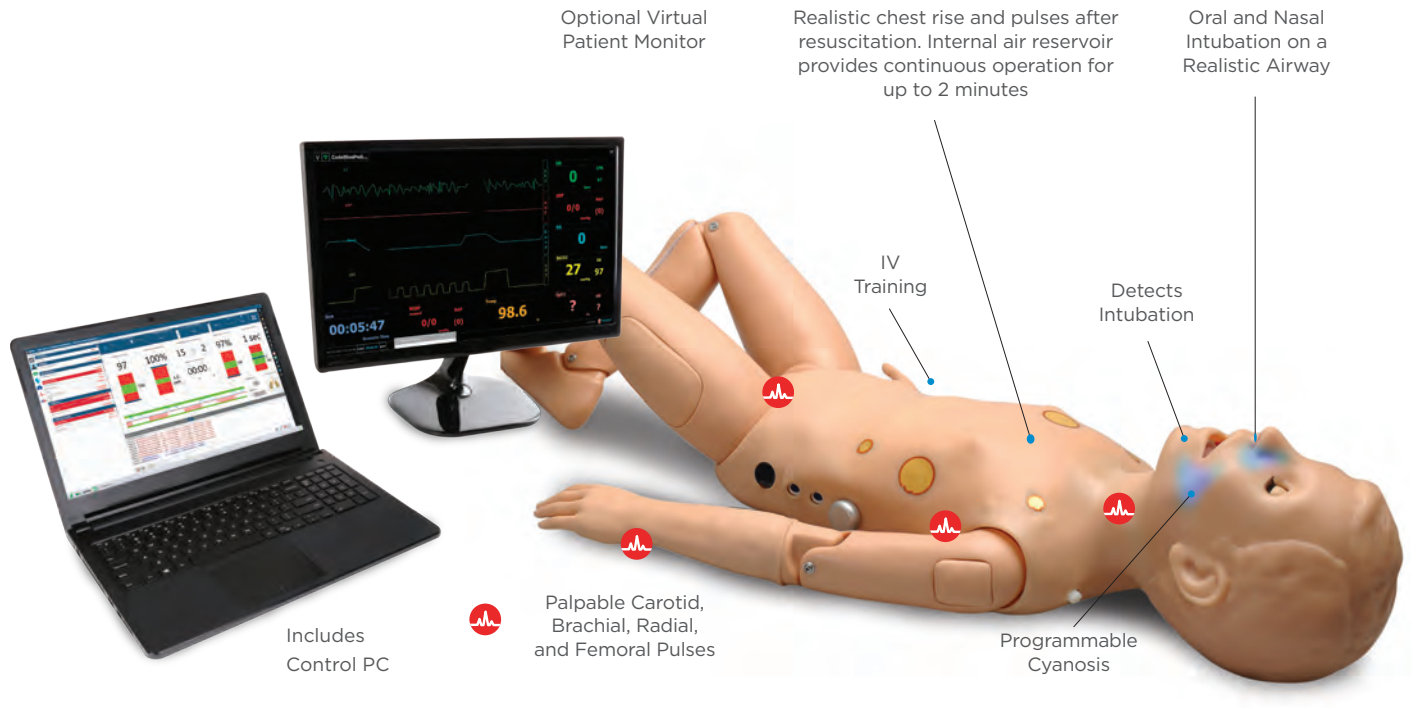
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals

S300.100.215

CODE BLUE® III FAMILY | ALS and Emergency Care Simulators

Code Blue® III S300.105 Resuscitation and Emergency Care 5-year Pediatric Simulator

EMERGENCY &
ADVANCED LIFE
SUPPORT



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:



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 FIVE YEAR

S300.105

Patented; other patents pending

- 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
 - Realistic chest rise and pulses after resuscitation. Internal air reservoir provides continuous operation for up to 2 minutes
 - Defibrillate, cardiovert, and pace using real devices and adjuncts
- Skin tones available at no extra charge

● Light ● Medium ● Dark

- 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
- 15in control laptop with Windows® operating system
- Supports Windows® applications, documents, and USB peripherals
- Includes USB communications module and cable

VIRTUAL MONITOR

S300.105.001

- Extended monitor displays patient vital signs in real time including HR, ABP, RR, CO2, SpO2, ETCO2, temperature, NIBP, and more
- Generate and display lab results for the providers to use
- Interactive interface features vital sign parameter alarms, customizable layouts, and file sharing

TETHERLESS CODE BLUE III OPTIONS

Our Code Blue III simulators are now available with our industry-leading tetherless technology. The wireless Control option allows for true care-in-motion scenarios.

WIRELESS CONTROL UPGRADE

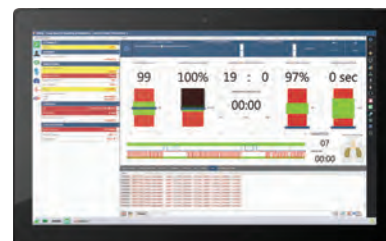
S300.105.232

- Control Wirelessly
- Train team hand-offs and care-in-motion
- Proven RF wireless connectivity provides reliable near-field communication for tetherless operability
- Includes internal battery and charger

LIGHTWEIGHT TOUCH TABLET

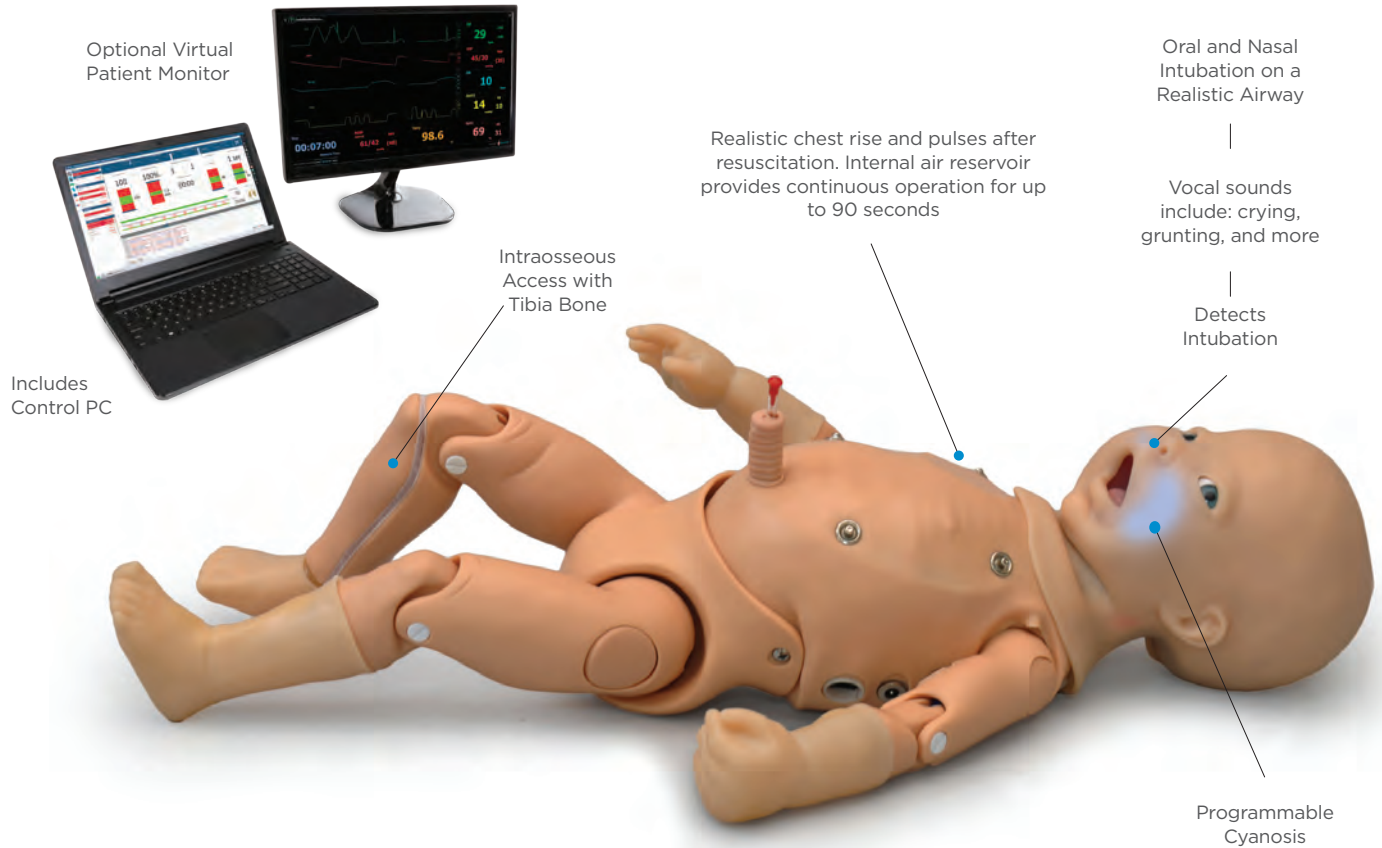
S300.105.215

- Upgrade the control PC to the lightweight wireless tablet
- Pen and touch enabled UNI® simulator control software
- Store your learning material, presentations, and evaluation in one device
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals



Code Blue® III S300.110 Resuscitation and Emergency Care Neonatal Simulator

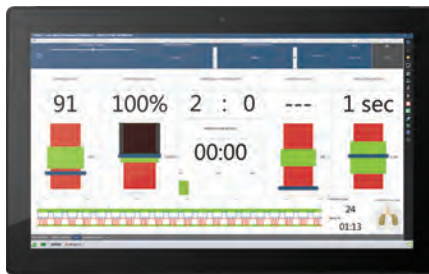
EMERGENCY &
ADVANCED LIFE
SUPPORT



ECPR™ QUALITY AND PERFORMANCE FEEDBACK

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

PROVIDER FEEDBACK MODE



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



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 NEWBORN

S300.110

Patented; other patents pending

- 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
- Realistic chest rise and pulses after resuscitation. Internal air reservoir provides continuous operation 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

CONTROL PC INCLUDED

- Windows® control laptop
- Supports standard Windows® applications, documents, and USB peripherals
- Includes USB communications module and cable

Skin tones available at no extra charge

- Light
- Medium
- Dark

VIRTUAL MONITOR

S300.110.001

- Extended monitor displays patient vital signs in real time including HR, ABP, RR, CO2, SpO2, ETCO2, temperature, NIBP, and more
- Generate and display lab results for the providers to use
- Interactive interface features vital sign parameter alarms, customizable layouts, and file sharing

TETHERLESS CODE BLUE III OPTIONS

Our Code Blue III simulators are now available with our industry-leading tetherless technology. The wireless Control option allows for true care-in-motion scenarios.



WIRELESS CONTROL UPGRADE

S300.110.232

- Control Wirelessly
- Train team hand-offs and care-in-motion
- Proven RF wireless connectivity provides reliable near-field communication for tetherless operability
- Includes internal battery and charger

LIGHTWEIGHT TOUCH TABLET

S300.110.215

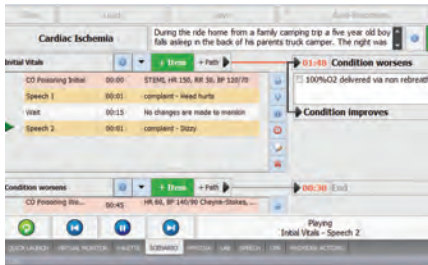
- Upgrade the control PC to the lightweight wireless tablet
- Pen and touch enabled UNI® simulator control software
- Store your learning material, presentations, and evaluation in one device
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals

CODE BLUE® III FAMILY | ALS and Emergency Care Simulators

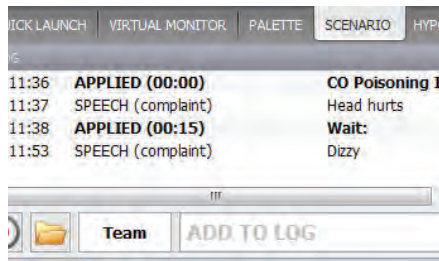
The Code Blue III family is ready for simulation with the UNI® Unified Simulator Control Software:

- 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

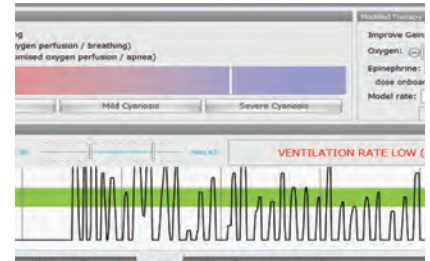
EMERGENCY & ADVANCED LIFE SUPPORT



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

FEATURE COMPARISON	S300.100	S300.105	S300.110
Airway sounds and vocal responses	●	●	●
Supports bag valve mask ventilation	●	●	●
Visible vocal cords	●	●	●
Head tilt-chin lift and jaw thrust	●	●	●
Oral/Nasal intubation (ET)	●	●	●
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	●	●	●
15in simulator control laptop (included)	●	●	●
Vital Signs Monitor / 19in virtual patient vital signs monitor	○	○	○
A/C Virtual Monitor	○	○	○

EMERGENCY &
ADVANCED LIFE
SUPPORT

● Standard ○ Optional Add-On/Accessory

Skin tones available at no extra charge

● Light ● Medium ● Dark

* Price when ordered with simulator



TRAUMA HAL[®] S3040.100 / S3040.50 / S3040.10

Rugged, Resilient and Tetherless



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

TRAUMA CARE



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.



TESTED

Trauma HAL® is based upon 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.



REALISTIC

- Streaming voice and pre-recorded 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 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

Easy Fluid 1.5 lt Refill Port

 Tourniquet Placement Range in Extremities. Place Tourniquet Anywhere Above Wound

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 appropriate pressure reducing and then stopping blood flow from the wound. Wounds accept combat gauze.



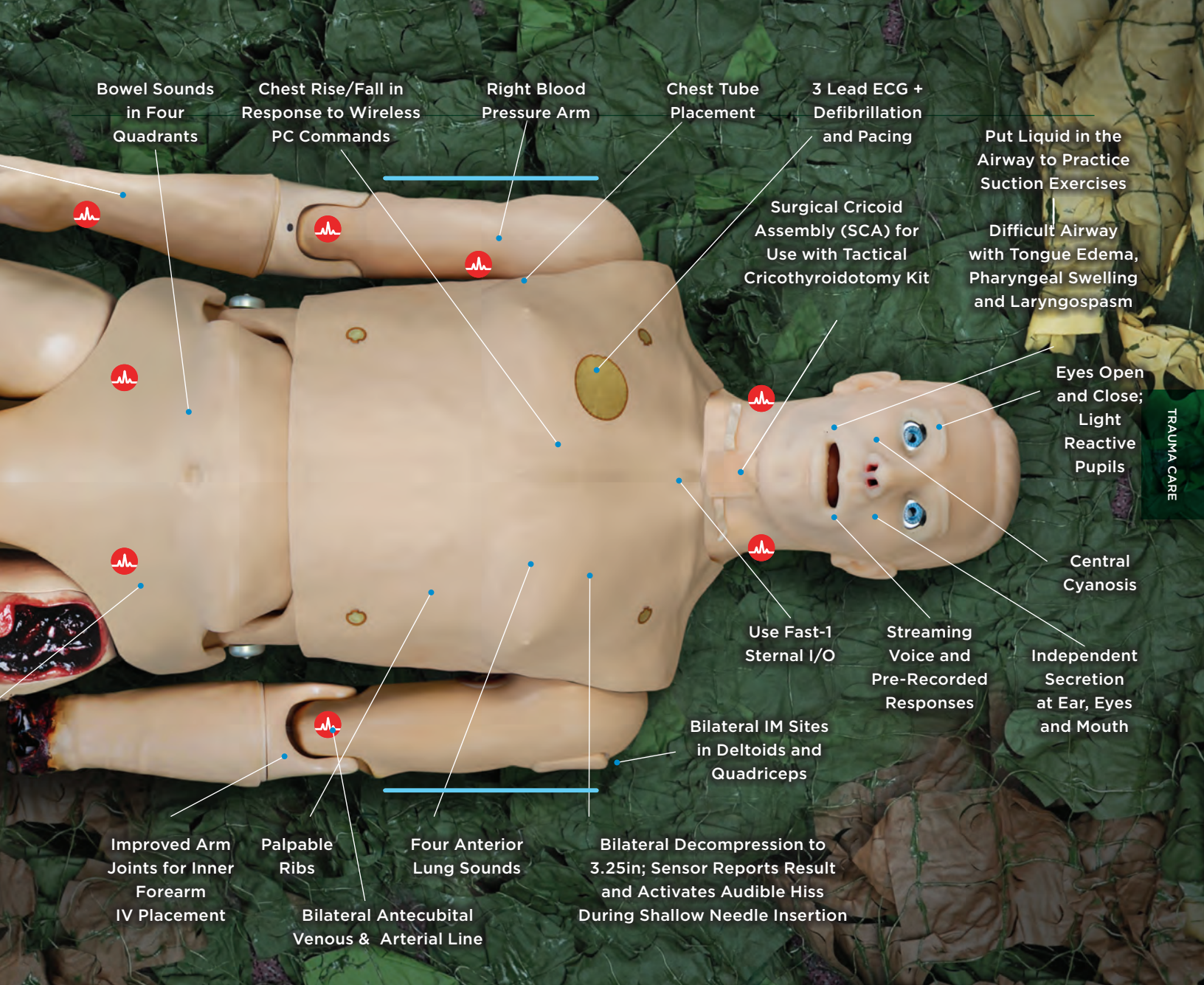
NEEDLE DECOMPRESSION

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 tourniquet is applied 2in above wound or 1 or 2in above the joint.



TRAUMA CARE



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.



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.



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.



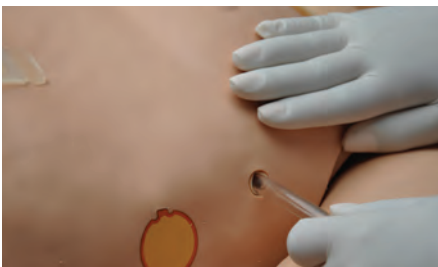
LIQUID SUCTION

Practice gastric liquid suctioning techniques.



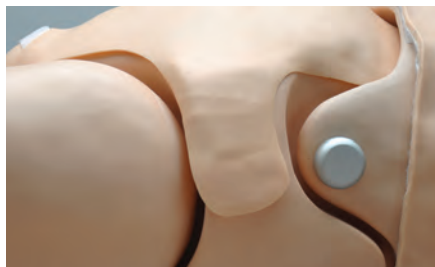
CATHETERIZATION

Practice catheterization.



CHEST TUBE PLACEMENT

Simulate pneumothorax excersises.



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 blood pressure and heart rate specified on wireless tablet PC. Sensors in his arm and leg respond to applied pressure and stop bleeding when 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

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 upon 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 responding 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.



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	●	○	-
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	●	●	-
Anterior upper and lower	●	●	-
Posterior upper and lower	●	-	-
Bilateral chest drain	●	●	-
Real CO2 exhalation †	○	○	-
Circulatory			
Central cyanosis	●	-	-
Bilateral Intravenous training arm	●	●	-
Oxygen Saturation measurement with real instruments	●	-	-
Automatic NIBP	○	-	-
Blood pressure auscultation (Real BP cuff)	●	-	-
Blood pressure auscultation (Modified 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)	○	○	-
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	Tablet	OMNI®2
Automatic physiologic control	○	-	-
Mobile patient monitor	○	○	○
Rolling travel case	•	•	•

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

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 CO2 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.I
- 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

S3040.50

S3040.10

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

ADVANCED 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

D/C 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

INTRASOSEOUS STERNAL ACCESS SITE
S3040.100.121

SET OF 5 SURGICAL TRACHEA INSERTS
S3040.100.035

SET OF 10 TRACHEA SKIN COVERS
S3040.100.122

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
S3040.100.080

MINERAL OIL
S3040.100.181

REPLACEMENT ITEMS

TRAUMA ARM
S3040.100.005

TRAUMA LEG
S3040.100.004

AXILA WOUND INSERT
S3040.100.109A

GROIN WOUND INSERT
S3040.100.109G

AXILLA HEALTHY INSERT
S3040.100.108A

GROIN HEALTHY INSERT
S3040.100.108G

BATTERY CHARGER
S3040.100.011

RF 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

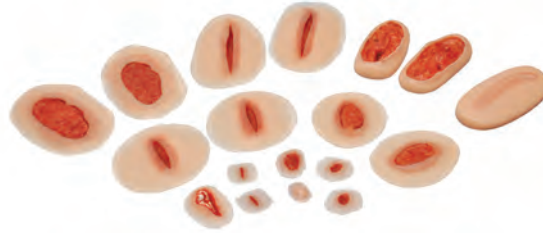
- Designed for Gaumard patient simulators
- Specially formulated silicone offers lifelike look and feel
- Tough, Resilient, and Reusable
- Ready for use and easy to apply; No makeup or paint required
- Light, Medium, or Dark skin tone kits available at no extra charge
- Carrying Case included

ADULT EMERGENCY WOUND KIT

WK100

11 wound types • 18 total wounds

The Emergency Wound Kit assists in training exercises simulating community disasters like bus accidents, or building explosions. Permits realistic practice required for the proper care, management and transportation of the injured.



Thigh suture



Small skin incision and skin abrasion



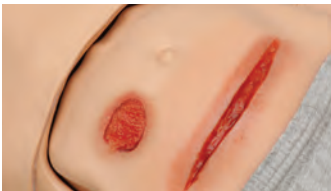
Skin incision (cut) medium size



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

These wounds simulate multiple burn injury types, allowing students to assess the burn type and prepare a treatment plan. Instructors can measure performance of burn management.



Burn on back



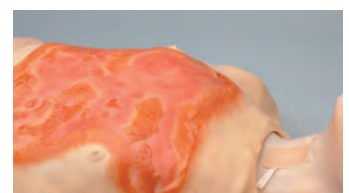
Burn on hand



Burn on forearm



Burn on face



Burn on chest

ADULT TRAUMA WOUND KIT

WK110

8 wound types • 10 total wounds

These trauma wounds will assist in training exercises for military, government responders and anyone providing treatment to victims of disasters and war. Detailed sculpting and painting create realism for the training of medics responding to these events.



Open humerus fracture



Round gunshot wound



Large caliber wound entry and exit



Open radius/ulna fracture



Open femur fracture



Object embedded in thigh



Abdominal/protruding intestine



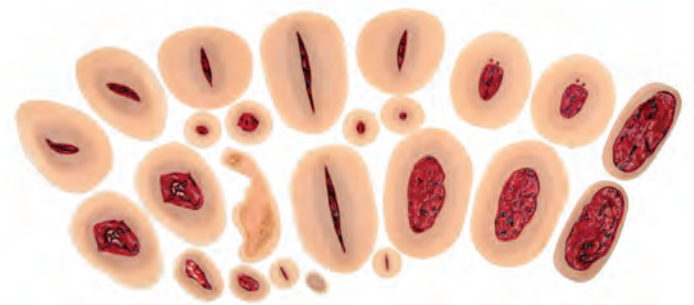
Open tibia fracture

ADULT CASUALTY WOUND KIT

WK120

14 wound types • 23 total wounds

This kit contains everything necessary to stage incredibly realistic casualty scenarios. This 23-piece kit has burns, lacerations, compound fractures, gunshot wounds, incisions, abrasions, and more...



Small skin incision & skin abrasion



Left side boneless laceration



Knife wound and medium skin abrasion



Burn on face



Skin incision (cut) medium size



Large caliber wound entry & exit



Object embedded in thigh



Round gunshot wound



Object in thigh and large skin abrasion



Compound bone fracture



Contusion to the head with inflammation



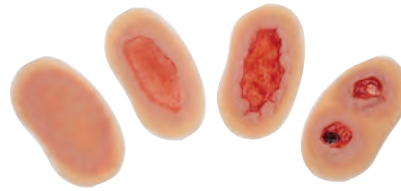
Deep wound in thigh

DECUBITUS ULCER WOUND KIT

WK145

4 wound types

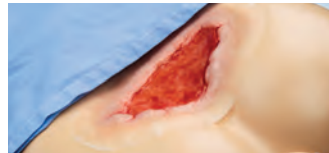
The decubitus ulcer wound kit includes Stage 1 through Stage 4 decubitus ulcers, allowing students to assess the severity of the wound and formulate a treatment plan.



Stage 1 Decubitus Ulcer



Stage 2 Decubitus Ulcer



Stage 3 Decubitus Ulcer



Stage 4 Decubitus Ulcer

TRAUMA CARE

PEDIATRIC INCIDENT WOUND KIT

WK125

11 wound types • 15 total wounds

These wounds simulate the most common injury types for pediatrics, 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

PEDIATRIC BURN WOUND KIT

WK130

12 wound types • 12 total wounds

These wounds simulate 1st, 2nd and 3rd degree burns to the face, hand, and chest. Students can assess the burns to prepare 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

These wounds assist in training exercising for anyone providing treatment to victims of falls, traffic accidents and other disasters. The detailed wounds create realism for the training of medics.



Upper Limb Road Rash



Radial Compound Fracture



Tibia Compound Fracture



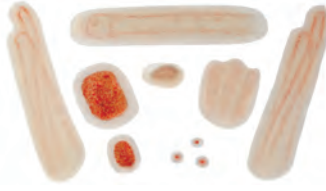
Femur Compound Fracture

PEDIATRIC PHYSICAL ABUSE WOUND KIT

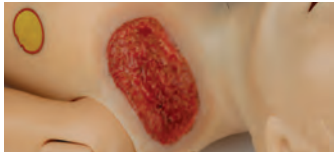
WK140

7 wound types • 10 total wounds

These wounds allow identification and evaluation of suspected child abuse and neglect victims. Wounds can be placed in multiple locations around the body, and help assess non-accidental trauma.



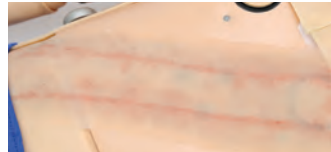
Close Cord Pattern



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

TRAUMA CARE

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.

WOUND KITS

Newborns

- Designed For Gaumard® Newborn Patient Simulators
- Specially Formulated Silicone Offers Lifelike Look And Feel
- Tough, Resilient, And Reusable
- Ready For Use And Easy To Apply;
- No Makeup Required
- Light, Medium, Or Dark Skin Tone Kits
- Available At No Extra Charge
- Carrying Case Included



NEWBORN INCIDENT KIT

WK150

6 wound types • 7 total wounds

These wounds simulate the most common injury types for newborns, including bites, stings, scratches, and bumps allowing realistic practice of proper care management and continuing observation.



Scalp Hematoma



Laceration



Laceration Scar



Human Bite



Scratches



Mosquito Bite

NEWBORN BURN KIT

WK155

6 wound types • 8 total wounds

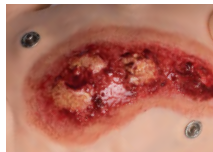
These wounds simulate 1st, 2nd, and 3rd degree burns to the face, abdomen, arms, legs, and back. Students can assess the burns to prepare treatment plans while instructors evaluate burn management and continuing care.



1st degree burn torso



2nd degree burn torso



3rd degree burn torso



1st degree burn arm



2nd degree burn arm



3rd degree burn arm

NEWBORN BURN KIT

WK160

5 wound types • 7 total wounds

This kit simulates common skin conditions including bumps, rashes, patches, and scales. Instructors can evaluate the students procedural discovery and care of harmless and/or alarming conditions.



Chicken Pox / Rash



Salmon Patch



Diaper Rash



Seborrheic Dermatitis / Cradle Cap

NEWBORN TRAUMA / ABUSE KIT

WK165

4 wound types • 7 total wounds

These wounds allow identification and evaluation of suspected child abuse and neglect victims. Wounds can be placed in multiple locations around the body, and help assess accidental and non-accidental trauma.



Cephalhematoma



Cigarette Burn



Fingerprint Bruise



Depressed Skull Fracture

SURGICAL CHLOE™ S2101

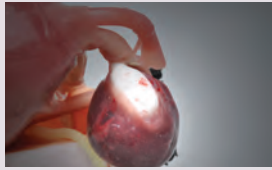
Full Body Surgical Simulator

- 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





HYSTERECTOMY



REMOVAL OF ENDOMETRIOMA



RUPTURED ECTOPIC PREGNANCY



REMOVAL OF DERMOID CYST



INCISION AND DISSECTION

ADDRESS ACGME SKILLS

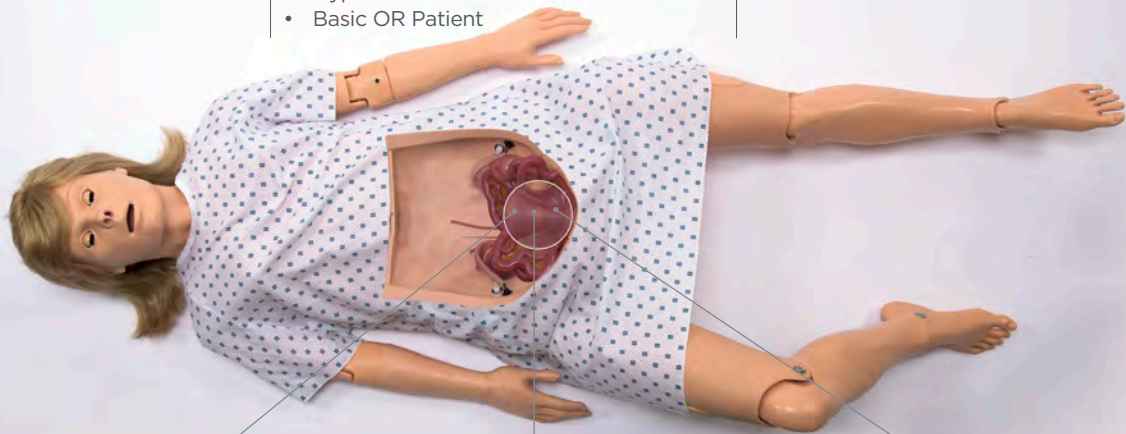
Simulator can be used to address competencies in six areas including: patient care, medical knowledge, practice based knowledge and improvement, systems based practice, communication, and professionalism.

SURGICAL SCENARIOS

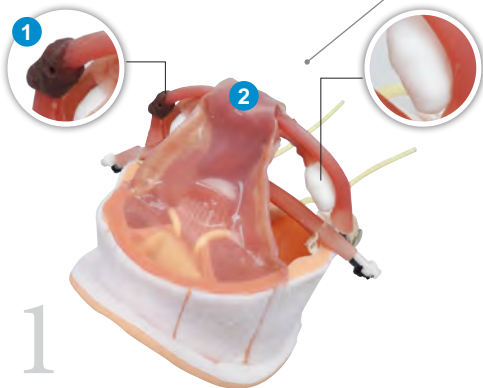
- Ruptured ectopic
- Pelvic mass
- Septic abortion
- Bleeding disorder
- Post-op hemorrhage
- Patient safety (fire)
- Malignant hyperthermia
- Cardiac arrest
- Anaphylaxis
- Hypoxia
- Basic OR Patient

USE REAL SURGICAL INSTRUMENTS

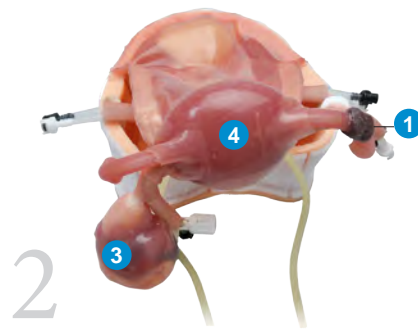
With its lifelike abdominal inserts and uterine assemblies, procedures can be performed using real surgical instruments in a real Surgical OR.



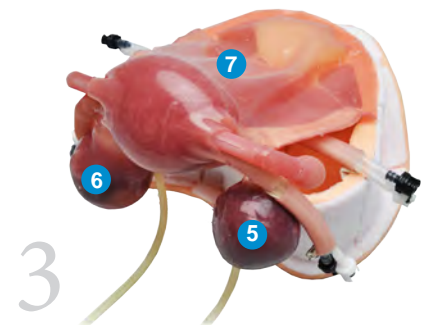
REPLACEMENT UTERINE ASSEMBLIES



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

- | | |
|--|--|
| 1 Ectopic Pregnancy | 5 Endometrioma |
| 2 Normal-Size Uterus with hemorrhaging | 6 Simple Cyst |
| 3 Dermoid Cyst | 7 Enlarged Uterus with Embedded Fibroids |
| 4 Enlarged Uterus | |

COMMON FEATURES

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



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.



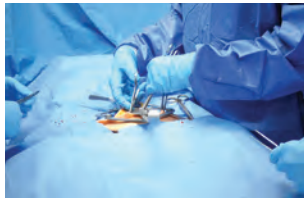
PRACTICE LAPAROTOMY, LAPAROSCOPY & VAGINAL PROCEDURES

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

Detection and log of chest compression and ventilations, bilateral carotid, radial, and brachial pulses; heart sounds, and programmable blood pressure.



TABLET PC WITH UNI® SOFTWARE

Control the simulator wirelessly from the intuitively simple UNI® software. Sensors track actions of up to 6 participants' actions 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 configuration of the virtual vital sign monitor to mimic the real monitors in your facility. Update vitals and share images such as ultrasounds, CT scans, lab results all from the controller tablet.

GENERAL

- Full-body, adult patient simulator
- Available in light, medium, and dark skin tones
- Built-in wireless connectivity with tablet PC
- Powered from 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 & 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

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 COMPONENTS

- Laparoscopy Abdominal Wall
- Includes eight(8) access ports on left(3), right(3), and midline(2)
- Place Laparoscopy 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 Laparoscopy 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, 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 with recording and debriefing system integrating the event log with cameras and patient monitor 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

SURGICAL CHLOE™

S2101

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

The First Female Advanced Simulator

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



AIRWAY

- Place NG/OG tubes
- Oral or nasal intubation/suctioning
- Programmable airway
- Sensors detect depth of intubation
- Perform tracheostomy or needle cricothyrotomy
- Unilateral chest rise with right mainstem intubation
- Multiple upper airway sounds synchronized with breathing including normal, none, inspiratory, expiratory and biphasic stridor

BREATHING

- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged
- Anterior and posterior lung sounds (8 sites) including normal, wheezing, inspiratory squeaks, crackles
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- BVM and mechanical support
- Unilateral chest rise and multiple breath sounds

CIRCULATION & COLOR CHANGE

- Multiple heart sounds, rates, and intensities including normal, none, distant, systolic murmur, S3 and S4
- Compressions measured and logged
- Blood pressure and oxygen saturation can be taken using real equipment
- Korotkoff sounds audible between systolic and diastolic pressures
- Bilateral carotid, radial, brachial, femoral, posterior tibial and pedal pulses operate continuously. Pulse strengths vary with Susie's blood pressure and pulses are synchronized with the ECG
- Cyanosis and vital signs respond to physiologic condition and interventions

VENOUS ACCESS

- Bilateral IV training arms
- IM sites on shoulders and thighs
- Draw blood from finger stick

EASY TO USE INSTRUCTOR CONTROL

- Use real BP cuffs, oxygen saturation monitors, and defibrillators
- Use our preprogrammed scenarios, modify them, or create your own quickly and easily
- Jump between physiologic states in response to the interventions of caregivers
- Change physiologic conditions "on-the-fly"
- Changes to Susie's condition and care provided are time stamped and logged for evaluation

ACTIVE EYES

- Open and close (select blink rate)
- Reactive pupils
- Select pupillary response to light
- Program "blown" pupil

BREAST EXAMINATIONS

- Conduct breast examinations and BSE techniques
- Proprietary silicone breast inserts
- Interchangeable left breasts include:
 - Fibrosystic disease (chronic mastitis)
- Benign tumor with stalk
- Giant sarcoma
- Scirrhus carcinoma
- Carcinoma in milk duct
- Right breast contains 8, 10, 16, and 20mm lumps for BSE



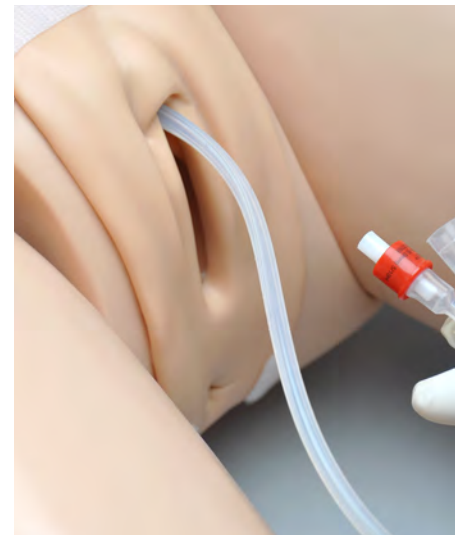
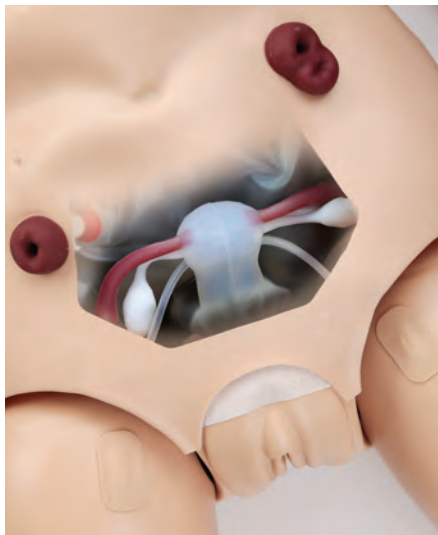
SUSIE® GYN PACKAGE

- Perform bimanual pelvic exam with interchangeable uteri
- Insert speculum and view interchangeable cervixes
- 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)



MORE

- Programmable bowel sounds in four quadrants including none, normal, borborygmus, diarrhea, hyperactive, irritable bowel syndrome, post-op, and ulcerative colitis
- Decubitus ulcers and ulcerated foot
- Colostomy and ileostomy exercises
- Perform female/male catheterization and irrigation
- Enema exercises





Wireless streaming audio ... great for taking patient's history. Be the voice of Susie and hear responses from caregivers. Create and store vocal responses in any language. Select responses from a pre-recorded vocal menu



Real-time CPR feedback and reporting. Support defibrillation, pacing and cardioversion using real equipment and energy.

Tetherless technology allows the communications, compressor, and power supply to be inside Susie, eliminating external tubes, wires, and compressors.

Susie operates continuously during transport and training can occur in the working environment.

Rush Susie from the accident scene to the ER, to the ICU and, on to recovery while care providers diagnose and treat her condition using real monitoring and resuscitation devices.

Control Susie at distances up to 300 meters and between rooms and floors of conventional buildings. Susie smoothly transitions between physiologic states in response to commands from a wireless PC.

Susie has conductive skin regions so you can:

- Apply real electrodes and AED pads
- Use real EMS equipment
- Monitor Susie's ECG on a real device

Susie is perfect for competency based programs:

- Sensors track student actions
- Changes to Susie's condition and care provided are time stamped and logged for evaluation and debriefing
- Instructors evaluate caregiver interventions with a single click and insert notes on a real time performance log
- Save caregiver performance, forward to any standard printer, or link with camera systems

Susie S2000 includes:

- Instructor's wireless tablet PC with stylus control and "bump" case
- Roller case
- Preprogrammed scenarios
- Rechargeable battery
- 100-240 VAC charger
- Conventional blood pressure cuff
- Instructions
- CDROM tutorial
- One-Year Limited Warranty
- Extended warranty plans available

Susie® S2000

S2000

Patented; other patents pending

OPTIONS

20" TOUCHSCREEN PATIENT MONITOR

S2000.001.R2



- All-in-one Touchscreen PC
- Display up to 8 numeric values including HR, ABP,RR, CO2, SpO2, temperature, NIBP and time
- Dynamic waveforms include ECG II, ABP, respiration, CO2 and pulse oximetry
- Set high/low threshold alarms
- View x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

12" PORTABLE VIRTUAL PATIENT MONITOR

S2000.002

AUTOMATIC "PHYSIOLOGIC" CONTROL

S2000.600

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

SUSIE® PREHOSPITAL AND NURSING CARE SIMULATOR

S1001

includes laptop PC



LAPTOP PC INCLUDED

SUSIE includes laptop PC. Change conditions such as heart rate and blood pressure immediately or specify smooth transitions.



VIRTUAL PATIENT MONITORING

Configurable 19in vital signs monitor. Display up to 12 values including HR, ABP, SpO2, SvO2, RR, EtCO2. View mock as x-rays and lab results.



CPR MONITORING

Compressions and ventilations are measured and logged.

EASY TO USE SOFTWARE

- 10 preprogrammed scenarios
- Use our preprogrammed scenarios, modify them, or create your own quickly and easily
- 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

AIRWAY

- Oral or nasal intubation
- Program tongue edema and 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

BREATHING

- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged

- 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 simulates tension pneumothorax
- Multiple lung and breath sounds with volume control

VENOUS ACCESS

- Bilateral IV training arms
- IM sites on shoulders and thighs

LOG

- 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

CIRCULATION

- 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
- Automatic bilateral carotid, left radial (you can disable), and bilateral femoral pulse
- Pulse strengths vary with Susie's blood pressure and pulses are synchronized with the ECG
- Oxygen saturation placement detection using real monitor

DEFIBRILLATION AND CARIOVERSION

- SUSIE has conductive skin regions so you can apply real electrodes and AED pads
- Defibrillate cardiovert and pace using real EMS equipment and see SUSIE's ECG on your AED
- Program SUSIE's response to defibrillation
- Stack shocks as needed

SUSIE® GYN PACKAGE

- Perform bimanual pelvic exam with interchangeable uteri
- Insert speculum and view interchangeable cervixes
- 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)

BSE TECHNIQUES

- Silicone breast inserts
- Left breast contains 8, 10, 16 and 20mm lumps
- Right breast is free of lumps

MORE

- Programmable bowel sounds including none, normal, borborygmus, diarrhea, hyperactive, irritable bowel syndrome, post-op, and ulcerative colitis
- Decubitus ulcers and ulcerated foot
- Colostomy and ileostomy exercises
- Perform female catheterization and irrigation
- Enema exercises
- Interchangeable genitalia

CERTIFICATIONS

- FCC, IC, CE

Skin tones available at no extra charge

Light
 Medium
 Dark

OPTIONS

WIRELESS CONTROL

S1001.232

- Control SUSIE wirelessly
- Train team hand-offs and care-in-motion
- Proven RF wireless connectivity provides reliable communication for tetherless operability

VIRTUAL MONITOR EXTENDED SCREEN

S1001.001

- Vital signs monitor with AC power
- Display up to 8 numeric values including HR, ABP,RR, CO2, SpO2, temperature, NIBP and time
- Select up to 5 dynamic waveforms including ECG II, ABP, respiration, CO2 and pulse oximetry
- Set alarms
- Select a 12 lead strip recording during the scenario
- Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses

WIRELESS STREAMING AUDIO

S1001.300

- Be the voice of SUSIE® and listen to student responses
- Bidirectional voice and data communication
- Create and store vocal responses in any language
- Select sounds from a pre-recorded vocal menu

TOUCH SCREEN TABLET UPGRADE

S1001.215

- Upgrade the control PC to a lightweight wireless tablet
- Pen and touch enabled UNI® Simulator Control Software
- Store your learning materials, presentations, and evaluations
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals

SUPER CHLOE™

Super Chloe with OMNI 2

\$222,100.250

Super Chloe with OMNI 1

\$222,100

CLINICAL CHLOE™ ADVANCED

Clinical Chloe Adv. with OMNI 2

\$222,250

Clinical Chloe Adv. with OMNI 1

\$222

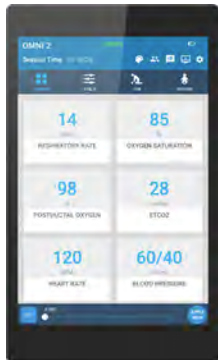
CLINICAL CHLOE™ ORIGINAL

Clinical Chloe with OMNI 2

\$221,250

Clinical Chloe Original

\$221



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, vital signs changes, 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



Manual bilateral carotid and right radial palpable pulses. Automatic left radial pulse when OMNI is connected to BP arm



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.

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 244.



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.



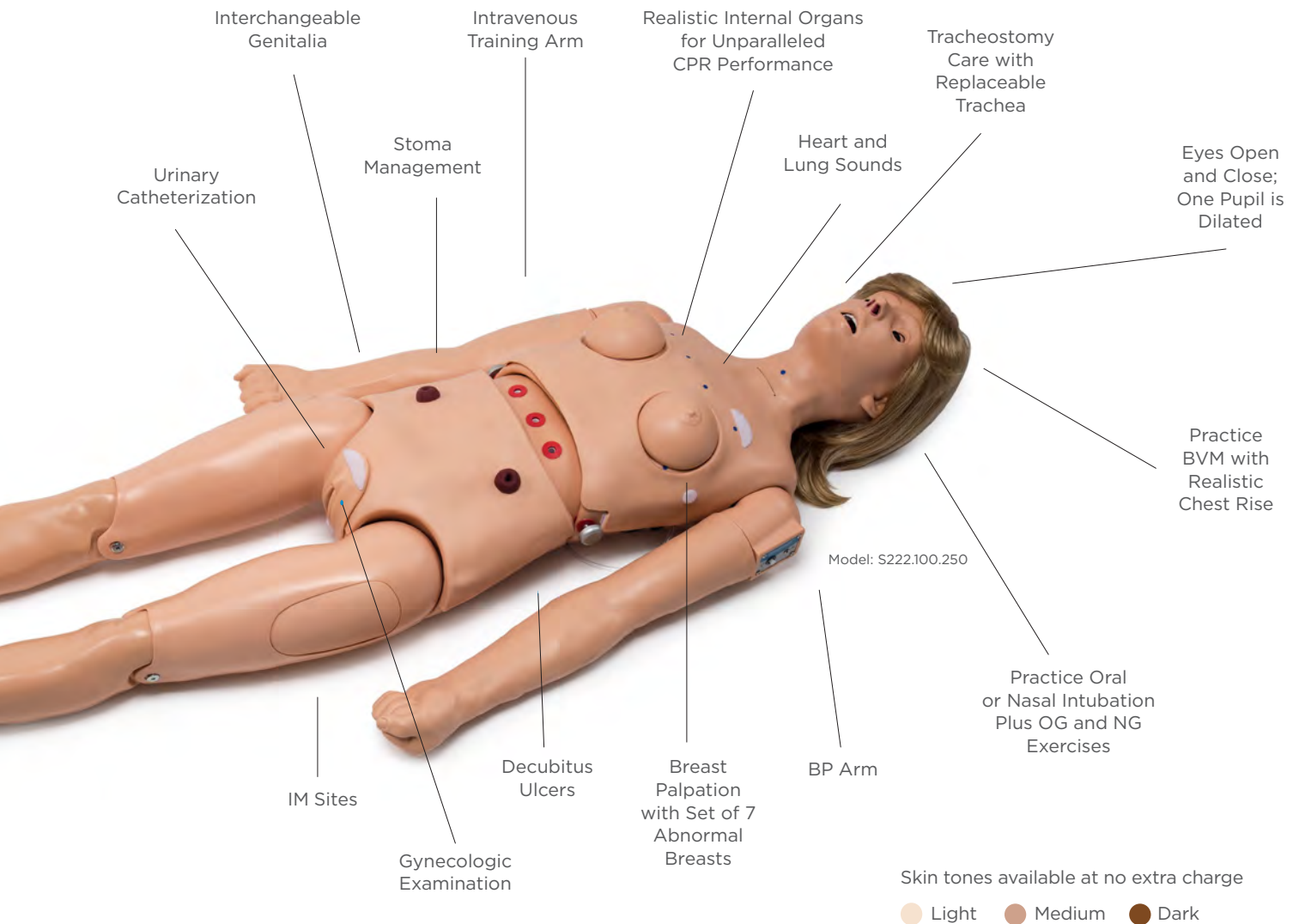
GYNECOLOGIC EXAMINATION

Practice multiple GYN exercises including IUD placement, vaginal douching, PAP smear, visual recognition of normal and abnormal cervixes, and more. New soft GYN exam inserts included with Super Chloe S222.100.250.



CATHETERIZATION

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



NURSING CARE

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 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.

General Features	\$222.100.250 \$222.100	\$222.250 \$222	\$221.250 \$221
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 faceskin, 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 haircare 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	•	•	•

• Standard ○ Optional Add-On/Accessory

General 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 cervixes	•	-	-
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	•	•	•
Latch provides secure seal between ostomies and internal tanks	•	•	•
User guide	•	•	•
Carrying bag	•	•	•
Neck brace	•	•	•

Models, Options, and Accessories

Model	S222.100.250	S222.100	S222.250	S222	S221.250	S221

Upgrades						
OMNI Interface	OMNI 2 Included	OMNI 1 Included	OMNI 2 Included	OMNI 1 Included	OMNI 2 Included	OMNI 1 Optional
GYN examination pack	(New Design) Included	Included	-	-	-	-
Blood pressure training arm for OMNI	Included	Included	S222.250.989	S222.989	Included	S221.989
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	
Decubitus ulcers	S222.100.764		S222.764		S221.764	
Ulcerated foot	S222.100.765		S222.765		S221.765	

Skin tones available at no extra charge



SIMON[®]

Advanced Patient Care Simulators

NURSING CARE | Patient Care Simulators

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

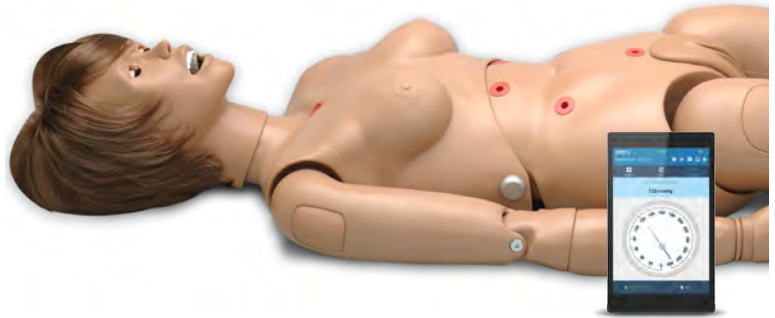
SUSIE® SIMON® with OSTOMY

SUSIE SIMON with OMNI 2

S201.250

SUSIE SIMON Basic

S201



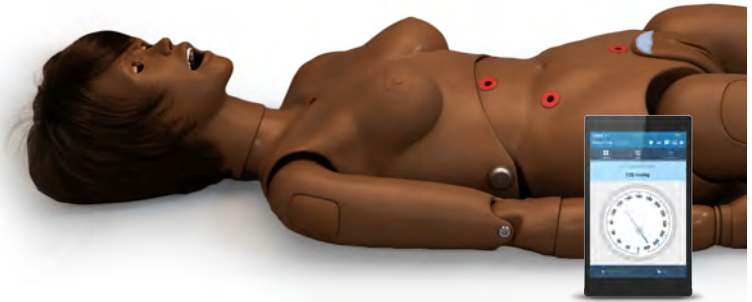
SUSIE® SIMON®

SUSIE SIMON with OMNI 2

S200.250

SUSIE SIMON Basic

S200



SIMPLE SIMON®

SIMPLE SIMON with OMNI 2

S205.250

SIMPLE SIMON Basic

S205



SIMPLE SUSIE®

SIMPLE SUSIE with OMNI 2

S206.250

SIMPLE SUSIE Basic

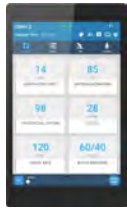
S206



Skin tones available at no extra charge

NURSING CARE | Patient Care Simulators

Features	S200 Susie Simon w/o Ostomy	S201 Susie Simon w/ Ostomy	S205 Simple Simon	S206 Simple Susie
General Patient Care				
Bathing and bandaging activity	●	●	●	●
Full body	●	●	●	●
Interchangeable genitalia	●	●	-	-
Eyes open and close	●	●	●	●
Realistic eyes for ophthalmic exercises	●	●	●	●
Realistic urethral passage and bladder for catheterization exercises	●	●	-	-
Soft, realistic face skin, hands, feet, fingers, and toes	●	●	●	●
Upper and lower dentures for oral hygiene	●	●	●	●
Simulated ear canal for otic drops and irrigation	●	●	●	●
Colostomy, ileostomy, and suprapubic stomas for 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	●	●	●	●



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, vital signs changes, and input notes to support debriefing

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 244.



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.



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	S200	S201.250	S201	S205.250	S205	S206.250	S206
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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

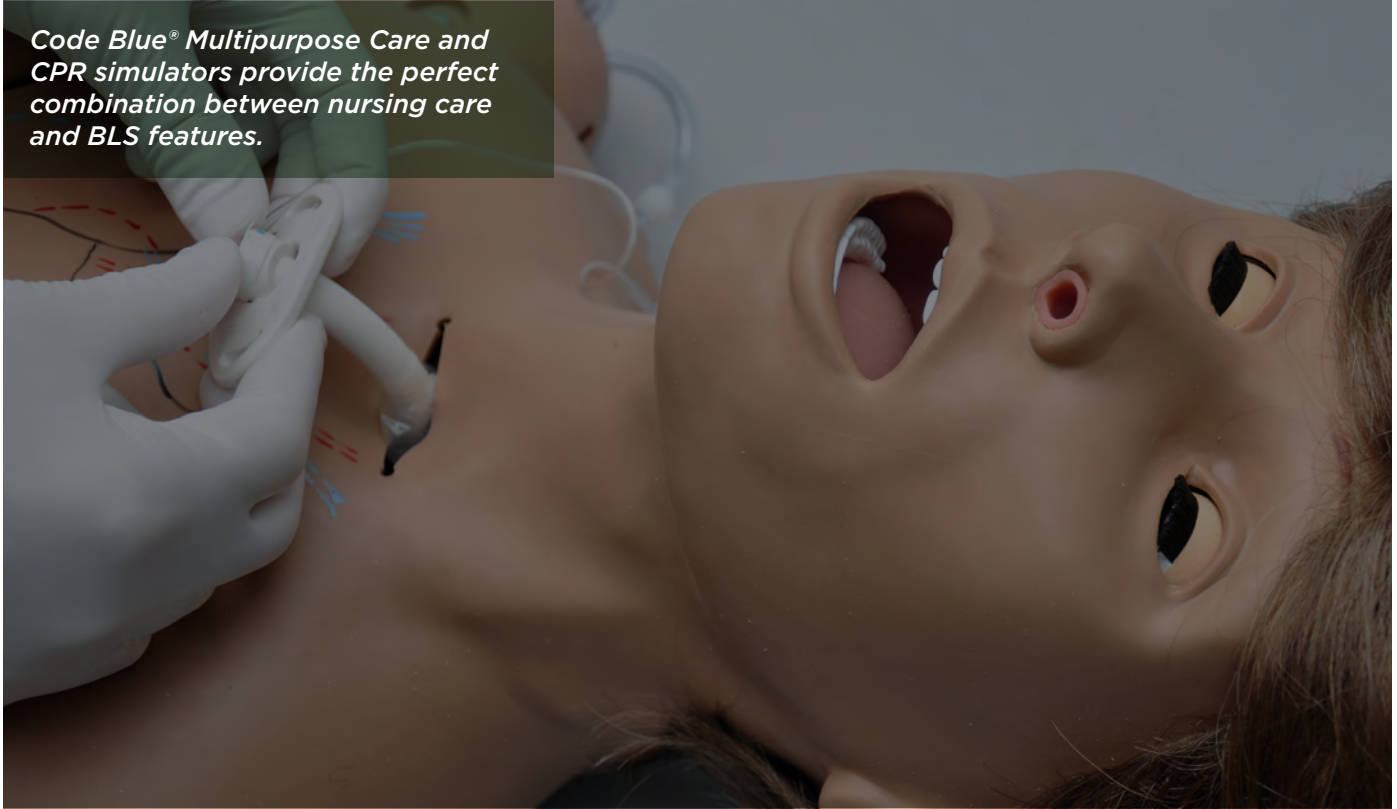


CODE BLUE[®]

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 touch screen interface

Code Blue® Multipurpose Care and CPR simulators provide the perfect combination between nursing care and BLS features.



NURSING CARE

CODE BLUE® with Intubatable Airway

CODE BLUE with OMNI 2
S303.250

CODE BLUE with OMNI 1
S303



CODE BLUE® with Disposable Airway

CODE BLUE with OMNI 2
S304.250

CODE BLUE with OMNI 1
S304



Skin tones available at no extra charge



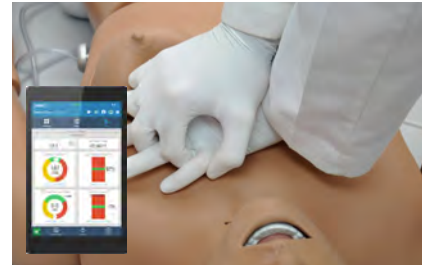
REALISTIC CHEST CAVITY FOR CPR

Realistic 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 a 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.

CODE BLUE® with Intubatable Airway

CODE BLUE with OMNI 2
S303.250

CODE BLUE with OMNI 1
S303

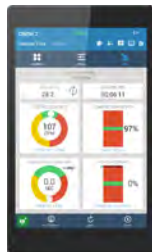
CODE BLUE® with Disposable Airway

CODE BLUE with OMNI 2
S304.250

CODE BLUE with OMNI 1
S304

GENERAL CARE

- Soft, lifelike face skin
- Eyes open and close; one pupil is dilated
- Jointed elbows, wrists, knees, and ankles
- Bends at waist as in 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 240.

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 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

S303.989

S304.250.989

S304.989



PEDIATRIC 5 YEAR

Nursing Care and ALS

PEDI® simulators include intubatable 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.

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

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
\$157.250

Mike & Michelle Basic
\$157

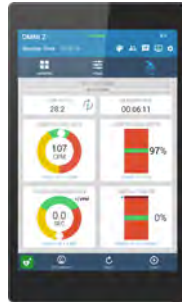
PEDI® 5 Year®

PEDI® 5 Year with OMNI 2
\$155.250

PEDI® 5 Year Basic
\$155

Mike & Michelle 5 Year®

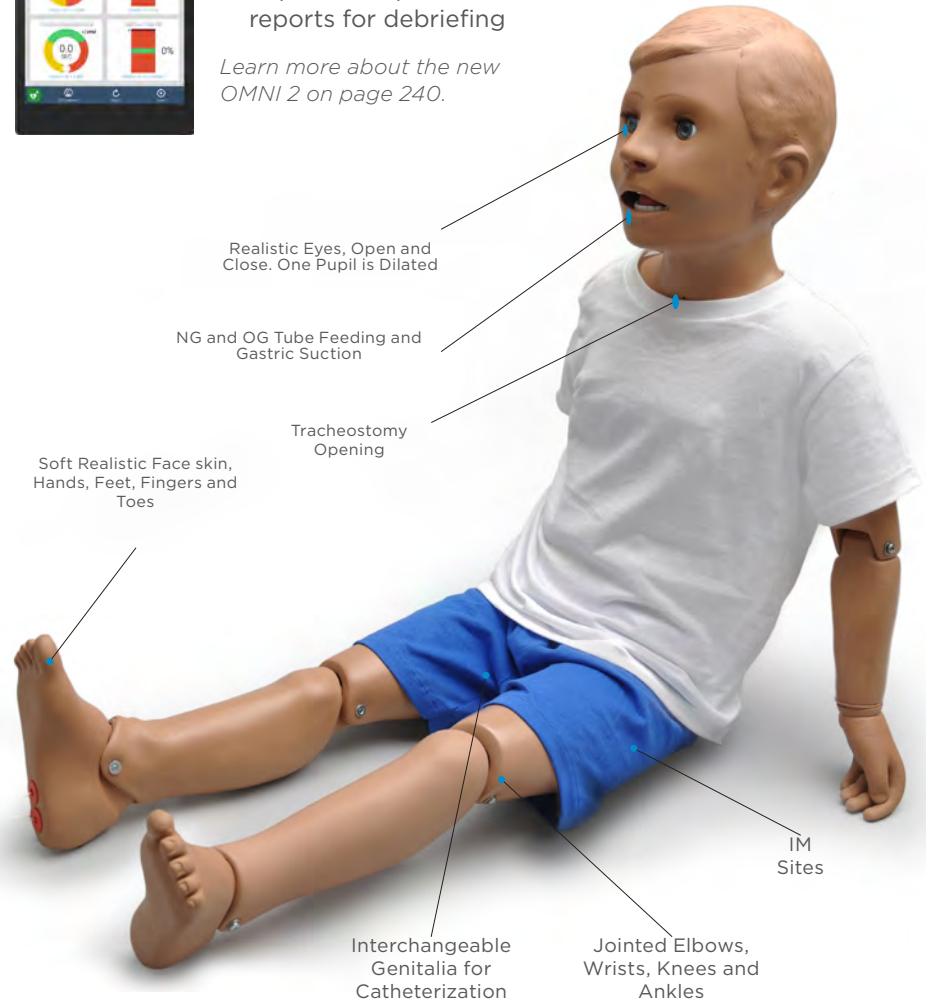
Mike & Michelle Basic
\$150



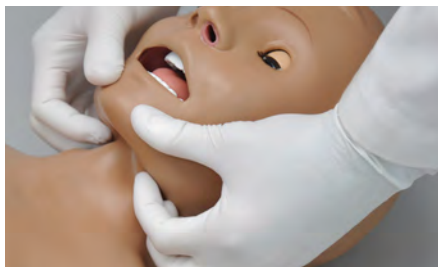
OMNI®2 REAL-TIME eCPR™ FEEDBACK

- 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 240.



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 cricocartilage permitting intubation, suctioning, and the Sellick maneuver.



INTRAOSSUEOUS ACCESS

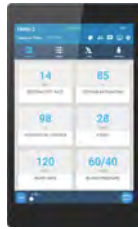
Intraosseous infusion and injection system with realistic tibia bones. Allows infusion of fluids, blood and/or drugs directly into the bone marrow of the tibia.

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

Feature Comparison	S157.250	S157	S155.250	S155	S150
Full Body with soft, lifelike face skin with molded hair	•	•	•	•	•
Eyes can be closed or opened manually realistic eye sockets	•	•	•	•	•
Head tilt/Chin lift	•	•	•	•	•
Oral/Nasal endotracheal intubation	•	•	•	•	-
Oral/Nasal nasogastric intubation	•	•	•	•	•
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	•	•	•	•	•

Base Price

• 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.

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

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 244.



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

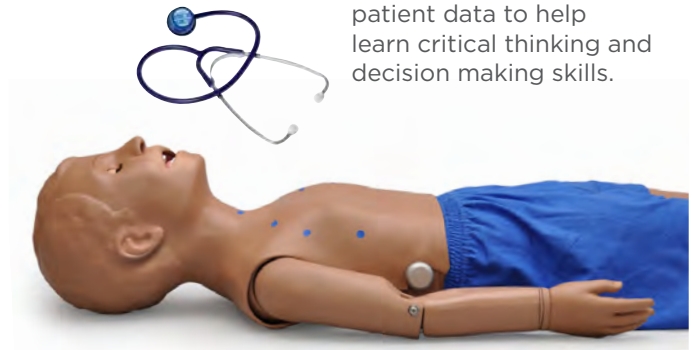


OMNI 2 VIRTUAL PATIENT MONITOR SUPPORT

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 LUNGS SOUNDS KIT WITH SMART STETHOSCOPE UPGRADE

- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart and lung sound as bell of stethoscope 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



NURSING CARE

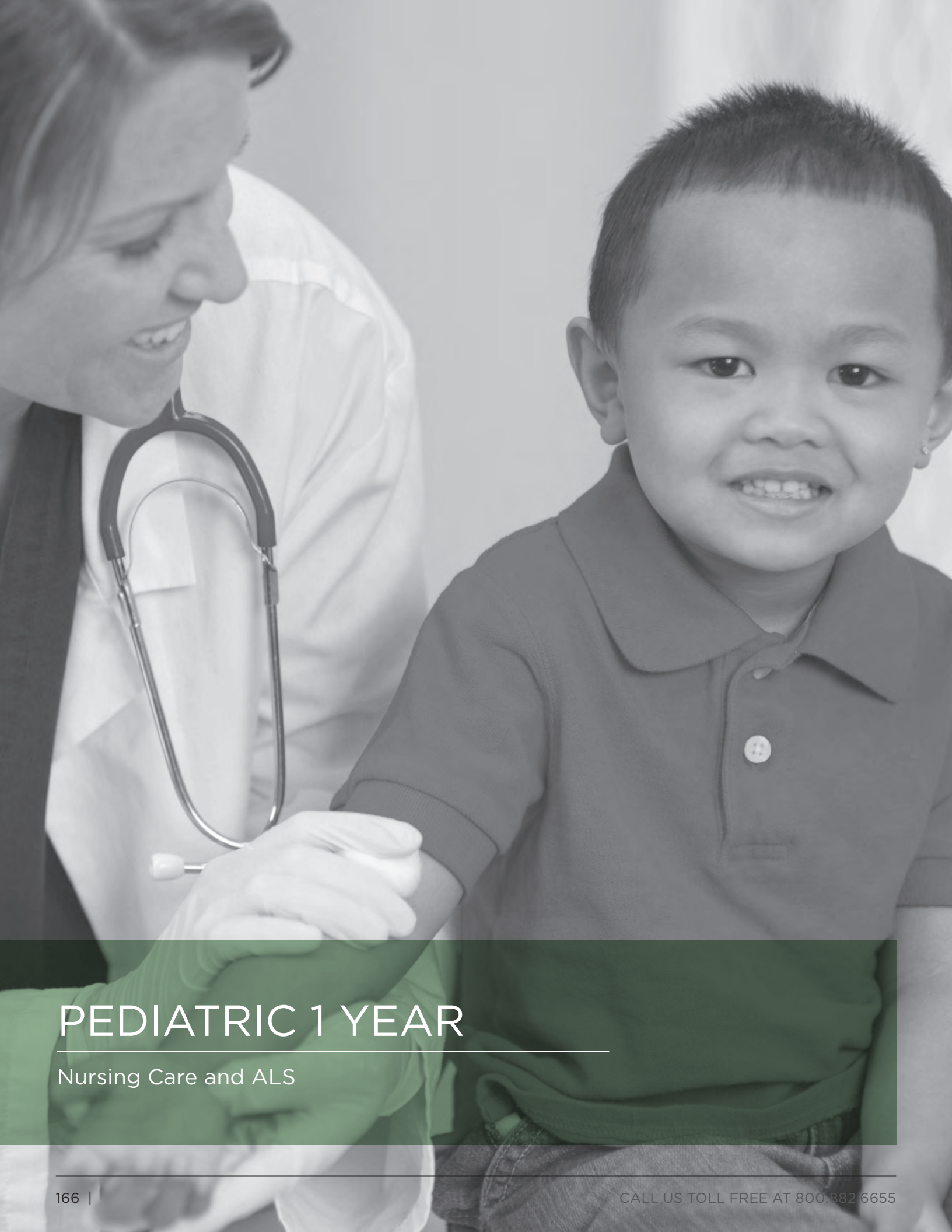
Models, Options, and Accessories

Model	S157.250	S157	S155.250	S155	S150
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Options

OMNI interface with real-time CPR feedback	OMNI 2 Included	OMNI 1 S157.184	OMNI 2 Included	OMNI 1 S155.184	-
Subclavian access	-	-	-	-	S150.707
IV training Arm	Included	-	Included	-	S150.803R.IV
I/O Access with bones	Included	-	Included	-	S150.702
Stoma care	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 ● ● ●



PEDIATRIC 1 YEAR

Nursing Care and ALS

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

One Year Multi. Patient with OMNI 1

S117



ONE YEAR PEDI® SIMULATOR

One Year PEDI with OMNI 2

S115.250

One Year PEDI Basic

S115



NURSING CARE

MIKE® AND MICHELLE®

S110



Skin tones available at no extra charge

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

Model Feature Comparison	S117.250 S117	S115.250 S115	S110
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	•	•	○
IV training arm	•	•	○
Femoral vein	•	•	-
Manual palpable pulses	•	•	-
Radial	○	○	-
Femoral and brachial	•	•	-
Popliteal	•	-	-
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	•	•	-
Tracheostomy care	•	-	○
Lavage/gavage	•	•	•
G-tube placement	•	-	•
Enema administration	•	-	•
Placement of rectal suppositories	•	-	-
Intramuscular injection sites	•	•	•
Simulated ear canal	•	•	•
Practice gastric suctioning exercises	•	•	•
Articulating head, arms, and legs	•	•	•
Realistic hands, feet, fingers and toes & molded internal organs	•	•	•
T-shirt and shorts, Soft carrying bag & Instruction manual	•	•	•

• Standard ○ Optional Add-On/Accessory

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

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 provider actions during the exercise
- Export CPR performance reports for debriefing

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 244.

HEART AND LUNGS SOUNDS KIT WITH SMART STETHOSCOPE UPGRADE

- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart and lung sound as bell of stethoscope 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



NURSING CARE

Models, Options, and Accessories

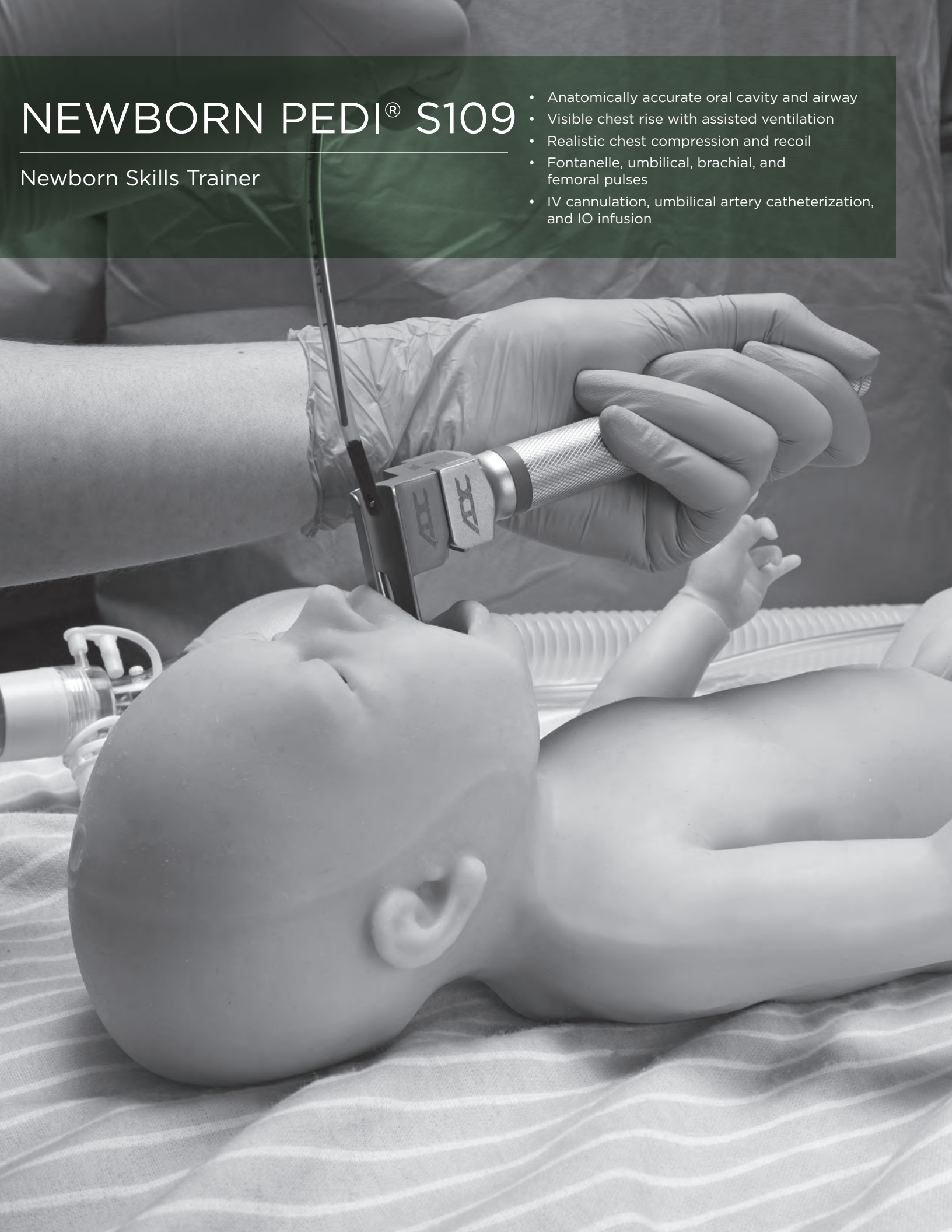
Model	S117.250	S117	S115.250	S115	S110
Base Price					
Upgrades					
Real-time CPR feedback interface	OMNI 2 Included	OMNI 1 S117.184	OMNI 2 Included	OMNI 1 S115.184	N/A
IV training Arm	Included	Included	Included	Included	S110.803R.IV
I/O Access with bones	Included	Included	Included	Included	S110.702
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

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



NURSING CARE



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

Available skin tones



NEWBORN MULTIPURPOSE PATIENT

Newborn Multi. Patient with OMNI 2

S107.250

Newborn Multi. Patient with OMNI 1

S107



NEWBORN PEDI® SIMULATOR

Newborn PEDI with OMNI 2

S105.250

Newborn PEDI Basic

S105



SUSIE® AND SIMON® Newborn Advanced Care Simulator

S100



PEDI® BLUE NEONATAL SIMULATOR with Newborn HAL® Body

PEDI BLUE Neonate with OMNI 2

S320.101.250

PEDI BLUE Neonate with OMNI 1

S320.101



PREMIE™ BLUE SIMULATOR with Smartskin™ Technology

PREMIE BLUE with OMNI 2

S108.250

PREMIE BLUE with OMNI 1

S108

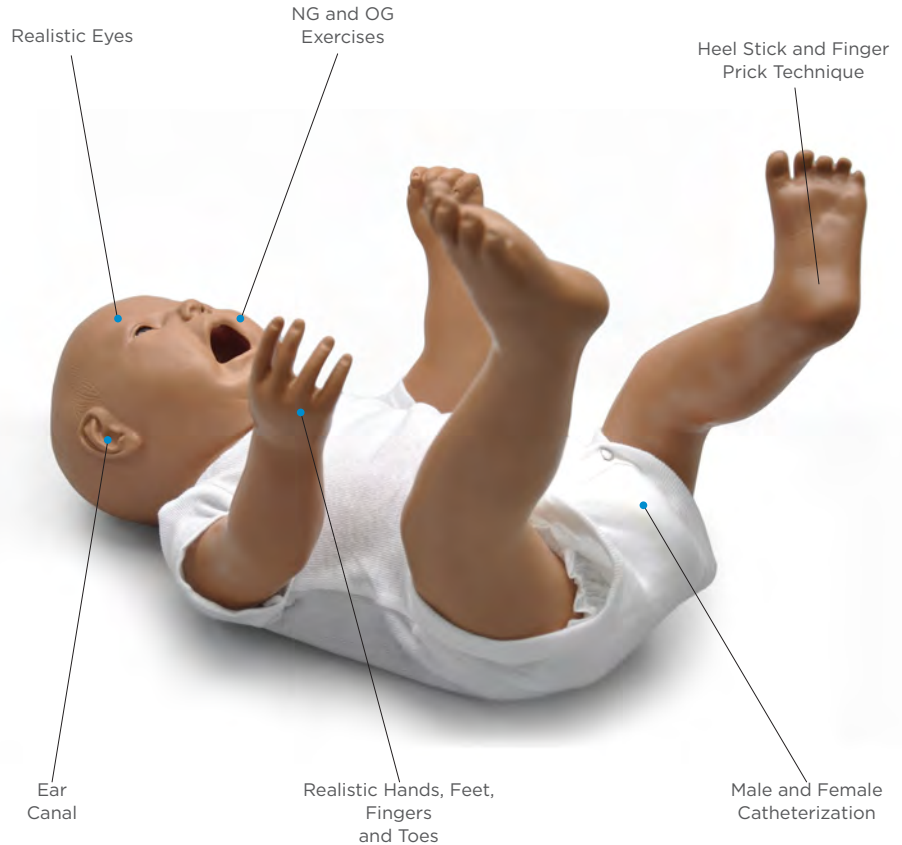


**SUSIE® AND SIMON® NEWBORN
ADVANCED CARE SIMULATOR**

S100

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



NURSING CARE

TRAINING ARM AND HAND FOR INTRAVENOUS ACCESS. ALSO FEATURES RADIAL AND BRACHIAL ARTERIAL SITES

S100.803R.IV

INTRAOSSUEOUS INFUSION SYSTEM WITH INTERCHANGEABLE AND REPLACEABLE TIBIAL BONES

S100.702

EXTERNAL STOMA SITES WITH INTERNAL TANKS

S100.703

UMBILICAL CATHETERIZATION SITE WITH INTERNAL TANK

S100.704

TEMPORAL VENOUS ACCESS SITES WITH INTERNAL TANK

S100.706



NASAL INTUBATION

NG exercises to demonstrate tube feeding and gastric suction.



CATHETERIZATION

Male and female catheterization. Removable internal tanks.

PEDI® BLUE NEONATE | *Blue Neonates*

PEDI® BLUE NEONATAL SIMULATOR

PEDI BLUE with SmartSkin™ and OMNI 2

S320.100.250

PEDI BLUE with
Newborn HAL® body and OMNI 2

S320.101.250

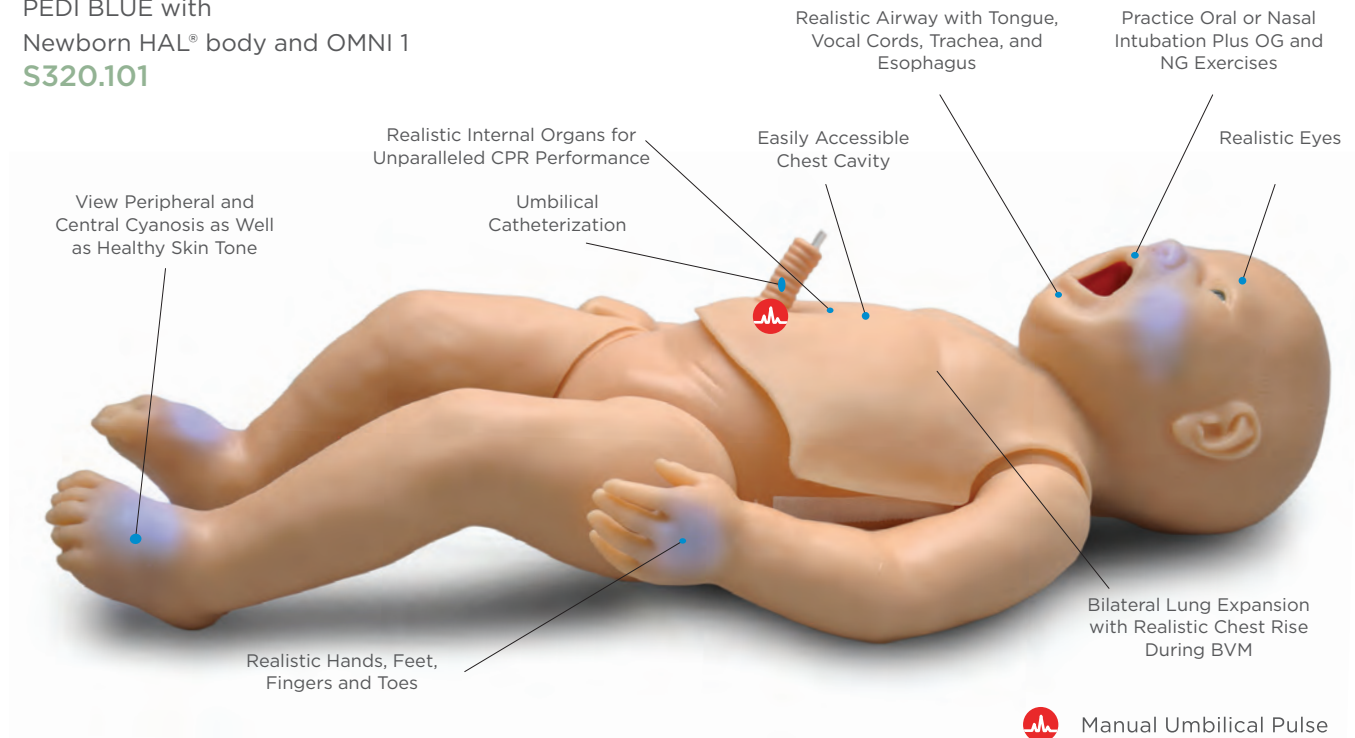
A spectacular newborn simulator which changes color based upon an initial pre-selected condition and measures the effectiveness of airway ventilation and chest compression. In addition, the simulator has all the conventional features found in airway management trainers. Optional accessories include an intraosseous leg and an injection Training arm.

PEDI BLUE with SmartSkin™ and OMNI 1

S320.100

PEDI BLUE with
Newborn HAL® body and OMNI 1

S320.101



NURSING CARE



AIRWAY MANAGEMENT

Realistic airway with tongue, vocal cords, trachea, and esophagus. Practice intubation using a miller 1 blade and uncuffed ET tube or LMA.



CYANOSIS

View peripheral and central cyanosis as well as healthy skin tone. Skin turns to healthy color with proper CPR.



CPR

Practice neonatal CPR with either two-thumb "encircling" technique or two finger alternate compression method. Monitor compressions and ventilations with OMNI controller.

FEATURES

- Full size articulating neonate
- Realistic airway with tongue, vocal cords, trachea, and esophagus for airway management exercises
- 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 240 and OMNI 1 on page 244.

S320.100.250 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

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

PEDI BLUE with SmartSkin™ and OMNI 1

S320.200



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.

PEDI® BLUE NEONATE | *Blue Neonates*

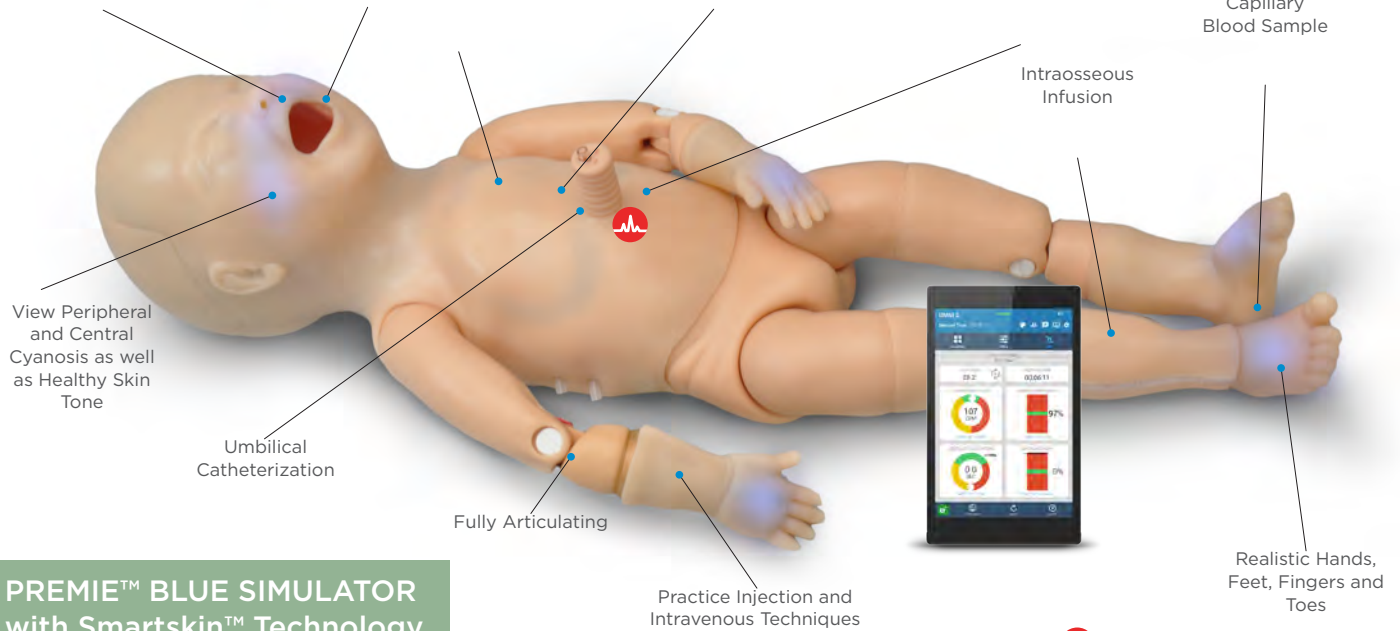
Practice Oral or Nasal Intubation Plus OG and NG Tube Placement

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 Heelstick Maneuver for Capillary Blood Sample



 Manual Umbilical Pulse

PREMIE™ BLUE SIMULATOR with Smartskin™ Technology

PREMIE BLUE with OMNI 2
\$108.250

PREMIE BLUE with OMNI 1
\$108

PREMIE™ Blue depicts a 28 week premature infant and includes an injection arm as well as 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.



Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 244.

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.

FEATURE COMPARISON

Features Comparison	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	•	•	•	•	•

• Standard ○ Optional Add-On/Accessory

NURSING CARE

Models, Options, and Accessories

Model	S108.250	S108	S107.250	S107	S105.250	S105	S320.100.250	S320.100

Upgrades

OMNI Real-time CPR feedback	OMNI 2 Included	OMNI 1 Included	OMNI 2 Included	OMNI 1 S107.184	OMNI 2 Included	OMNI 1 S105.184	OMNI 2 Included	OMNI 1 Included
IV training Arm	Included		Included		Included		S320.100.803R.IV	
I/O Access with bones	Included		Included		Included		S320.100.702R	
Chest decomp. and drainage	-		-		S105.711		-	

Skin tones available at no extra charge

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 CO2 Output with End Tidal Detector or Capnography

Capable of Holding PEEP, 5-20 cm H2O

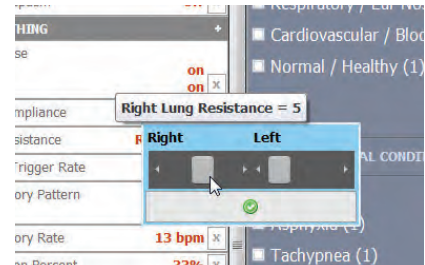
RESPIRATORY & AIRWAY



Receive real time feedback from real mechanical ventilator



Create scenarios using our proven, easy to use, HAL® software

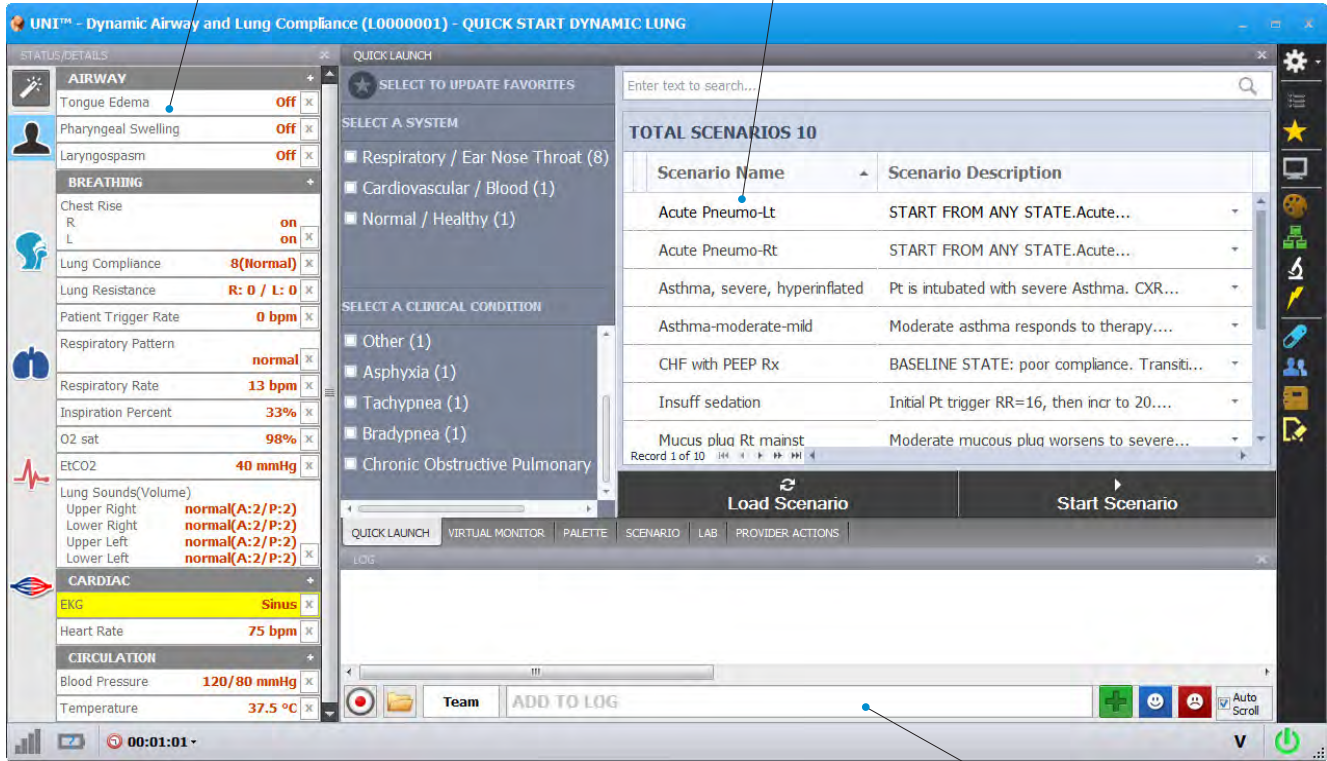


Change lung resistance/compliance "on-the-fly" and see results on a real ventilator and recorded on the laptop

HAL® S1030 | Dynamic Airway and Lung Compliance Simulator

Status Window Shows HAL's Current Physiologic State

Preprogrammed Scenarios Included



Automatic Event Log Detects Intubation and Ventilations

Screenshots using a REAL ventilator connected directly to HAL S1030, along with corresponding settings used in the Gaumard software:

BREATHING	
Chest Rise	R: on, L: on
Lung Compliance	5 (Low)
Lung Resistance	R: 5 / L: 5
Patient Trigger Rate	0 bpm
Respiratory Pattern	normal
Respiratory Rate	0 bpm
Inspiration Percent	0%
O2 sat	83%
EtCO2	0 mmHg
Lung Sounds (Volume)	
Upper Right	wheezing(A:2/P:2)
Lower Right	wheezing(A:2/P:2)
Upper Left	wheezing(A:2/P:2)
Lower Left	wheezing(A:2/P:2)
CARDIAC	
Heart Rate	75 bpm



MODERATE ASTHMA
Compliance 5, Left/Right Lung Resistance 5

BREATHING	
Chest Rise	R: on, L: on
Lung Compliance	8 (Normal)
Lung Resistance	R: 0 / L: 0
Patient Trigger Rate	0 bpm
Respiratory Pattern	normal
Respiratory Rate	0 bpm
Inspiration Percent	0%
O2 sat	83%
EtCO2	0 mmHg
Lung Sounds (Volume)	
Upper Right	normal(A:2/P:2)
Lower Right	normal(A:2/P:2)
Upper Left	normal(A:2/P:2)
Lower Left	normal(A:2/P:2)
CARDIAC	
EKG	Sinus
Heart Rate	75 bpm



NORMAL COMPLIANCE LOOP
Compliance 7

HAL® S1030

S1030

Patented; other patents pending

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 CO₂
- Assess CO₂ 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 H₂O
- Independently controlled airway resistances
- Capable of assisting the ventilator at variable respiratory rates
- Capable of holding PEEP, 5-20 cm H₂O
- Real CO₂ 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

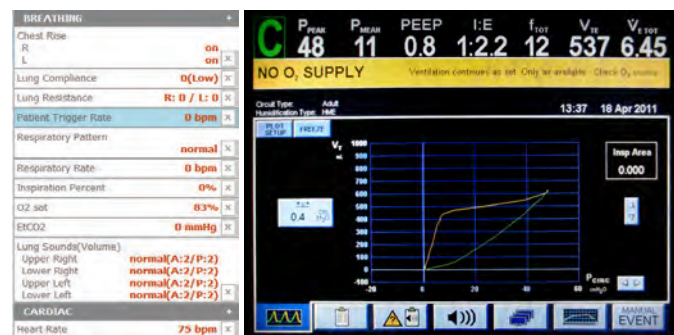
OTHER

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



SEVERE FIBROSIS

Compliance 0



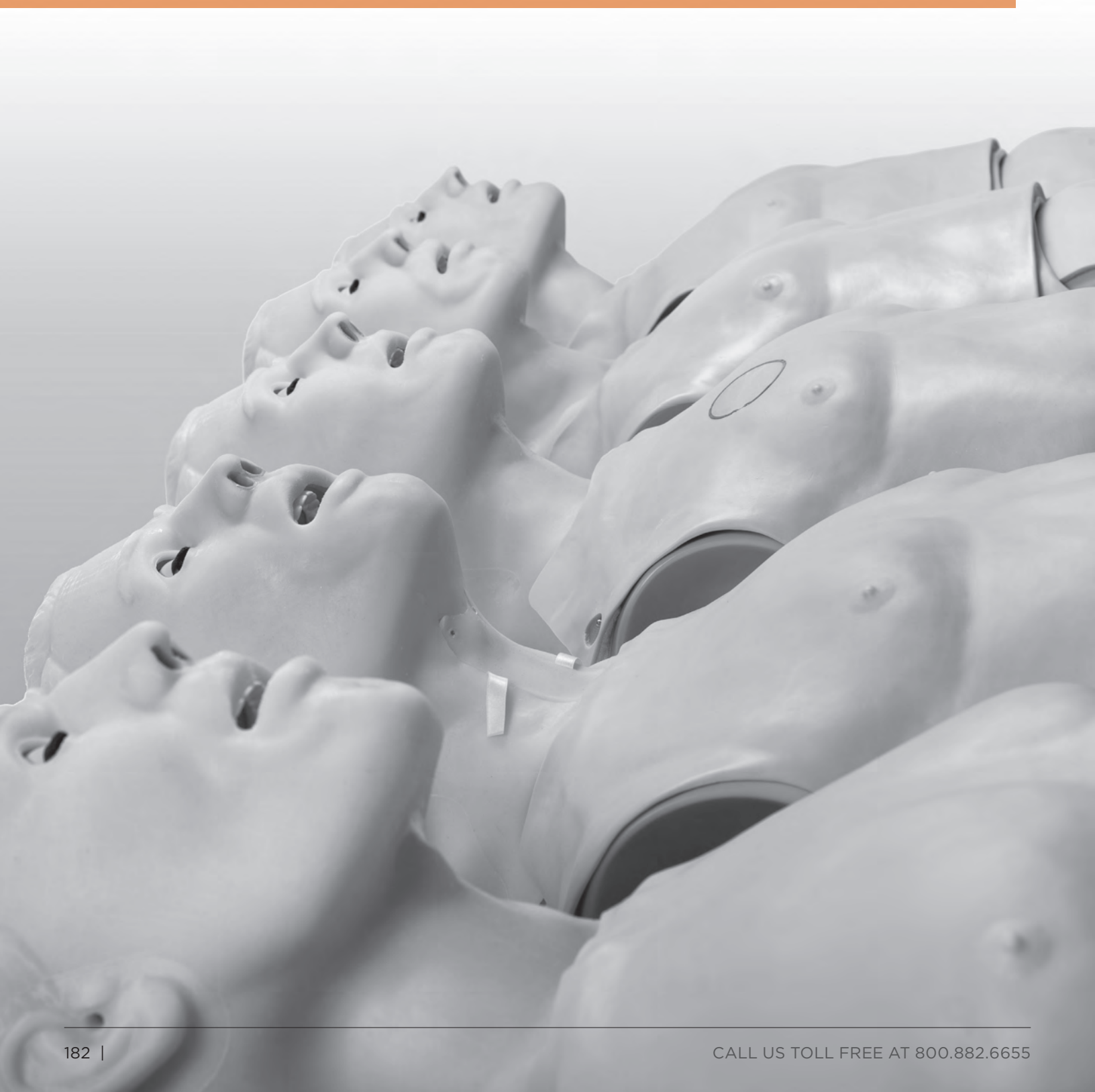
LOW COMPLIANCE UNI CONTROLS

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



HAL® CPR+D TRAINER

S315.500.M2



HAL® AIRWAY TRAINER

S315.400.M2



HAL® AIRWAY, CPR & HEART & LUNG SOUNDS

Available with OMNI 2

S315.300.M2



HAL® MULTIPURPOSE AIRWAY AND CPR TRAINER

Available with OMNI 2

S315.100.M2



HAL® AIRWAY AND CPR TRAINER

Available with OMNI 2

S315.M2



RESPIRATORY
& AIRWAY

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. 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 240..

RESPIRATORY & AIRWAY



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



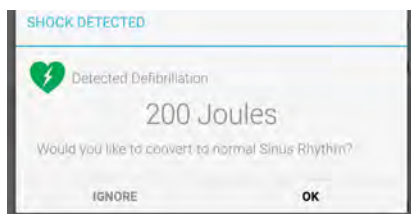
Identify proper chest rise and pulses without add-on items



Monitor and cardiovert rhythms using a real AED/defibrillator



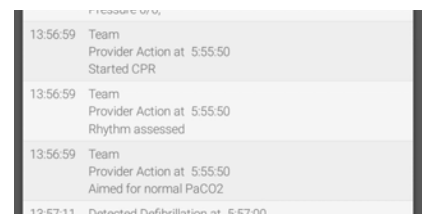
Defibrillate directly on patches or pad-free posts numerous times



See immediate feedback on actions and select the responses



Check for return of spontaneous circulation



Automatically detect and record events for easy debriefing



DEBRIEF, LEARN, & IMPROVE

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

RESULTS		
Total Session Time	00:07:04	
C:V Cycles Performed	29	
COMPRESSION RATE	COMPRESSION DEPTH	AVERAGE RECOIL
105	5.1	0.2
Target Compression Rate 100 CPM	Target Compression Depth 5.0 cm	Target recoil 0 in
AVERAGE VENTILATION RATE	AVERAGE VENTILATION PIP	AVERAGE VENTILATION DURATION
10	25	1.3
Target Ventilation Rate 12 VPM	Target Ventilation PIP 17 cmH2O	Target Ventilation Duration 1 sec
CLOSE		SAVE REPORT

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

Available skin tones

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

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

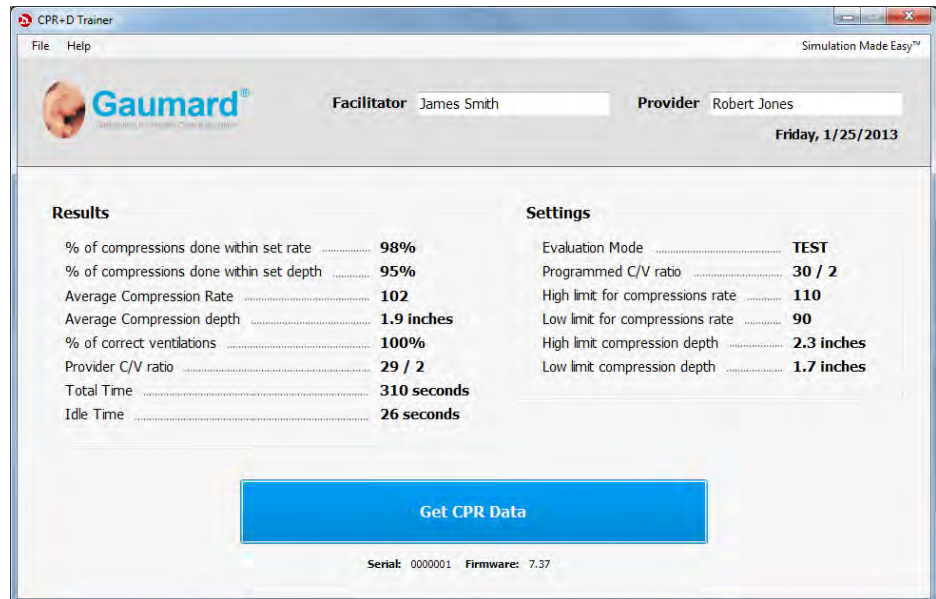


Easily refill the automatic breathing system for the next session

RESPIRATORY
& AIRWAY

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

Patent Pending

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 handheld 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
- Handheld 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



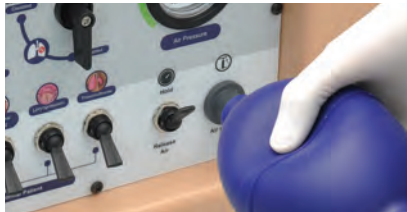
Manually programmable tongue edema, laryngospasm and pharyngeal swelling



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

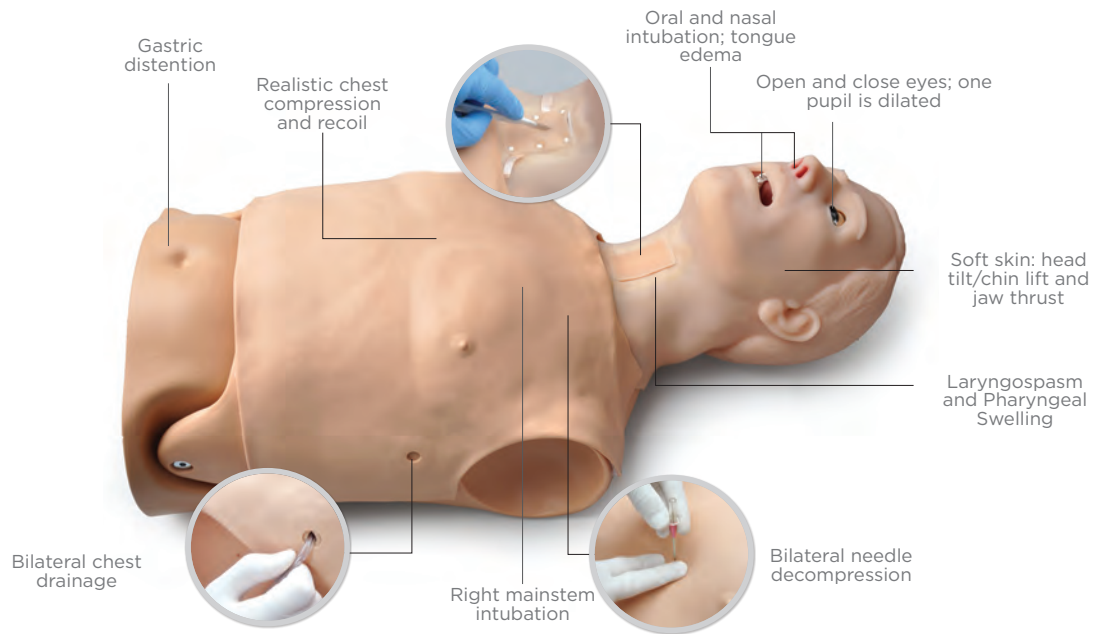


Easy neck flexion and extension. Realistic jaw thrust, head tilt/chin lift



Bilateral needle decompression at 2nd intercostal space

HAL® S315.400 | Advanced Multipurpose Airway Trainer



HAL® S315.400

S315.400
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 main stem 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.M2.974

10 SIMULATED CRICOID MEMBRANES

S315.400.M2.990

SET OF 10 CRICO/TRACHEA SKIN COVERS

S315.400.M2.923

SET OF 5 TRACHEAL INSERTS

S315.400.M2.984

SET OF 5 NEEDLE DECOMPRESSION INSERTS

S315.400.M2.926

CHEST SKIN

S315.400.712

HAL® S315, S315.100, and S315.300 | Airway, CPR, and Auscultation

HAL® S315 AIRWAY AND CPR TRAINER

Learn more about the new OMNI 2 on page 240 and OMNI 1 on page 244.



HAL S315 with OMNI 2
S315.250

HAL S315 Basic
S315.M2

OMNI 1 upgrade for HAL Basic
S315.M2.184

Upgrade to full body form factor
S315.M2.705

HAL® S315.100 MULTIPURPOSE AIRWAY AND CPR TRAINER



HAL S315.100 with OMNI 2
S315.100.250

HAL S315.100 Basic
S315.M2.100

OMNI 1 upgrade for HAL Basic
S315.100.M2.184

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

HAL® S315.300 AIRWAY, CPR AND AUSCULTATION TRAINER



HAL S315.300 with OMNI 2
S315.300.250

HAL S315.300 Basic
S315.300

OMNI 1 upgrade for HAL Basic
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



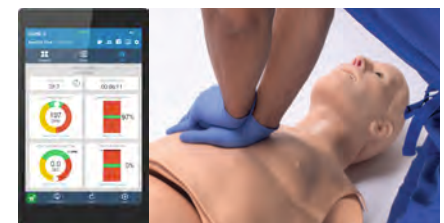
Laryngospasm and pulses



Surgical airway



Durable chest cavity



OMNI Real time CPR feedback



Bilateral lung expansion



Chest tube placement



Needle decompression

RESPIRATORY & AIRWAY

HAL® S315, S315.100, and S315.300 | Airway, CPR, and Auscultation

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	-	-	•	-	-
	Laryngospasm	-	•	-	•	-
	Pharyngeal swelling	-	-	-	•	-
Tracheostomy and cricothyrotomy	-	•	-	•	-	-
Chest rise with bag valve mask ventilation	•	•	•	•	•	•
Gastric distension with esophageal intubation	•	•	•	•	-	-
Right mainstem intubation presents unilateral chest rise	•	•	•	•	•	•
Bilateral chest tube sites at 5th intercostal	-	-	-	•	-	-
Bilateral needle decompression sites at 2nd intercostal space with audible hiss	-	-	-	•	-	-
Disable chest rise unilaterally	-	-	-	•	-	-
VS100 Virtual Stethoscope - Programmable normal and abnormal heart and lung sounds	-	-	•	-	-	-
CPR hand positioning landmarks and realistic chest compression recoil and depth	•	•	•	•	•	•
Real-time CPR monitoring and performance reports	○	○	○	-	•	•
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	•	•	•	•	•	•

RESPIRATORY
& AIRWAY

Skin tones available at no extra charge

● Light ● Medium ● Dark

● Standard ○ Optional Add-On/Accessory

5 YEAR PEDI® AIRWAY TRAINER

S314



1 YEAR PEDI® AIRWAY TRAINER

S312



NEWBORN PEDI® AIRWAY TRAINER

S320



Feature Comparison

	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 cricocartilage 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 cricocartilages, membrane tape	-	-	-
Carrying bag	•	•	•
Instruction manual	•	•	•

Options

Site specific heart and lung sound trainer	S314.848	S312.848	-
Chest decompression and drainage	314.711	312.711	S320.711

• Standard ○ Optional Add-On/Accessory

THE SIMON® ADULT CPR SIMULATOR

Simon with OMNI 2 (Full Body)
S311.250

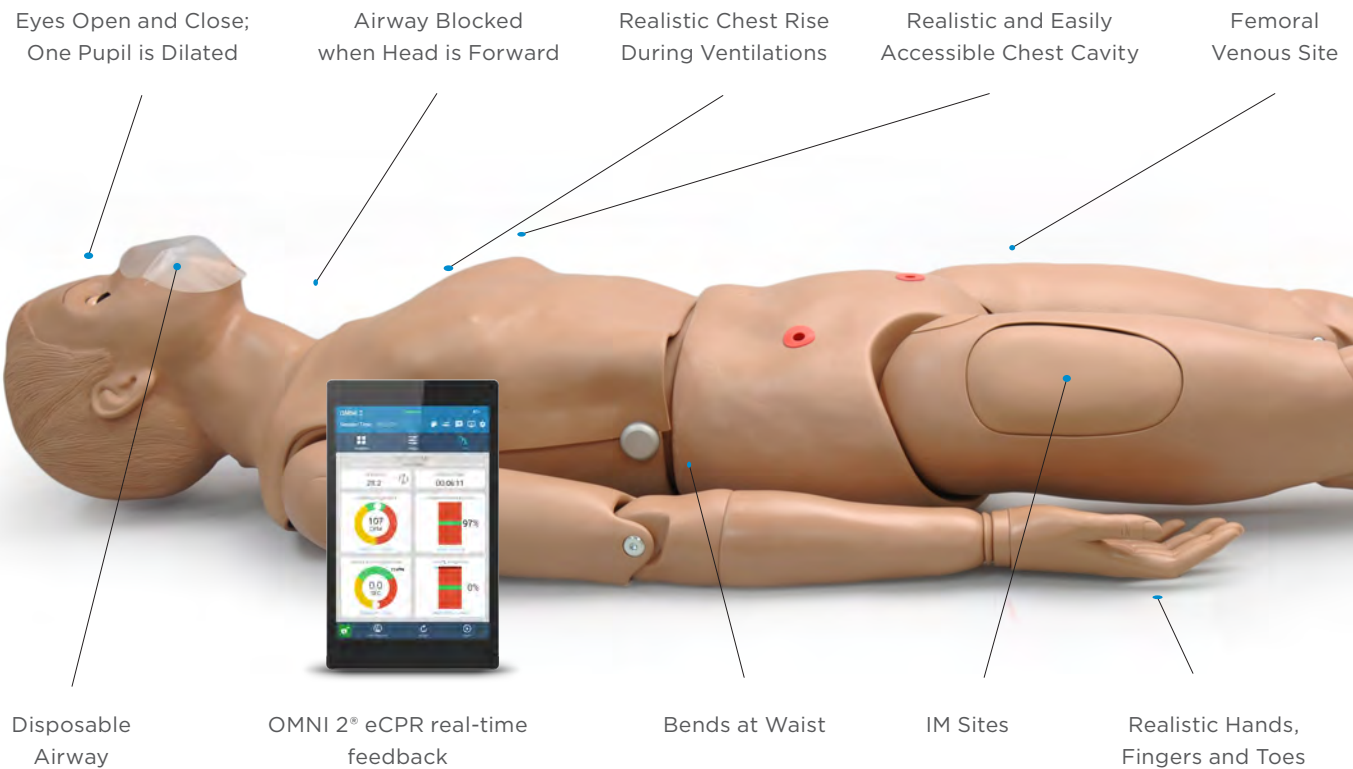
Simon with OMNI 1 (Full Body)
S311

Simon with OMNI 2 (Torso)
S309.250

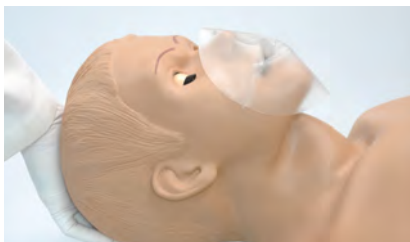
Simon with OMNI 1 (Torso)
S309

Simon Basic (Torso)
S308

Simon Basic (Full Body)
S310



 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

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 S311.250

- Totally 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, 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 240.

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 eCPR Feedback		●		●
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

CARRYING BAG

S311.807

BASIC LIFE SUPPORT



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

BASIC LIFE SUPPORT | CPR Care Simulators

FIVE YEAR CPR CARE SIMULATOR

Five Year with OMNI 2
\$154.250

Five Year with OMNI 1
\$154

Five Year with OMNI 2
\$152.250

Five Year with OMNI 1
\$152

Five Year Basic
\$153

Five Year Basic
\$151

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 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

FIVE YEAR CPR AND TRAUMA CARE SIMULATOR

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

FEATURES FOR S154.250

- 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 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
- One normal eye and one eye dilated
- Bends at waist

- Jointed elbows, wrists, knees, ankles
- Realistic hands, feet, fingers and toes
- Detachable at waist for easy storage
- Practice regular or Vest CPR
- 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 240.

Select System	151	152	153	154
Feature:				
CPR	●	●	●	●
Disposable Airway	●	●	●	●
Arterial Pulse Sites	●	●	●	●
OMNI eCPR Feedback		●		●
Intraosseous Access			●	●
Intravenous Arm & Leg			●	●

OPTIONS

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

S152.803R.IV

With interchangeable hand for finger prick practice

INTRAOSSIOUS OPTION

S152.702



Ten totally 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

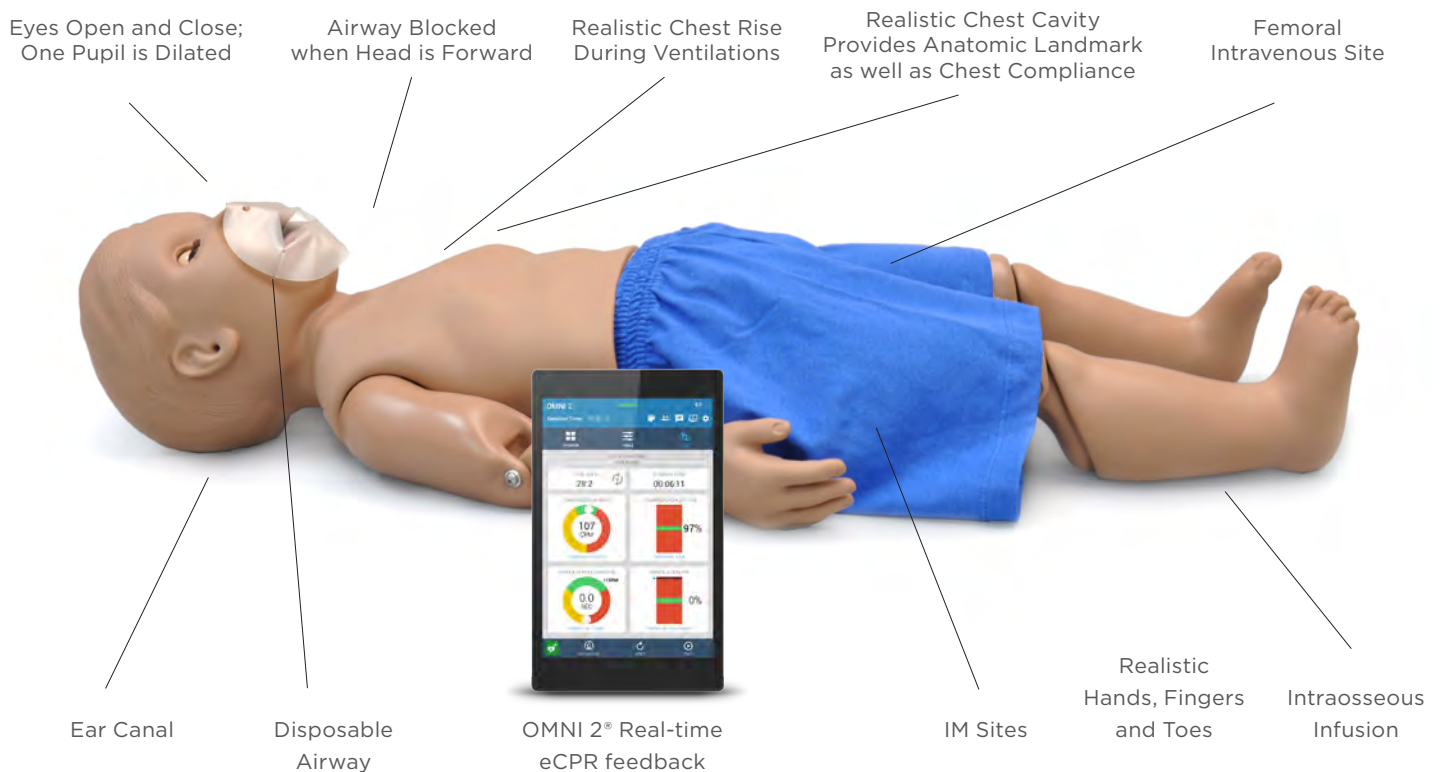
One Year with OMNI 1
S114

One Year with OMNI 2
S112.250

One Year with OMNI 1
S112

One Year Basic
S113

One Year Basic
S111



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

ONE YEAR CPR AND TRAUMA CARE SIMULATOR

- S111 Full Body
- S112 Full Body
- S113 Full Body
- S114 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 240.

FEATURES FOR S114.250

- 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
- Femoral venous site
- Intramuscular (IM) Injection Sites on the quadriceps
- Bilateral brachial, right femoral, and left posterior tibial pulses
- Soft, lifelike faceskin with molded hair
- Eyes open and close in realistic eye sockets for ophthalmic purposes
- One normal eye and one eye dilated
- T-shirt and shorts
- Custom nylon carrying bag
- Instruction Manual

Select System	111	112	113	114
Feature:				
CPR	●	●	●	●
Disposable Airway	●	●	●	●
Arterial Pulse Sites	●	●	●	●
OMNI eCPR Feedback		●		●
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

INTRAOSSIOUS OPTION

S110.702

BASIC LIFE SUPPORT



Realistic chest cavity provides anatomic landmark as well as chest compliances



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



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

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

SUSIE/SIMON with OMNI 2

\$104.250

SUSIE/SIMON with OMNI 1

\$104

SUSIE/SIMON with OMNI 2

\$102.250

SUSIE/SIMON with OMNI 1

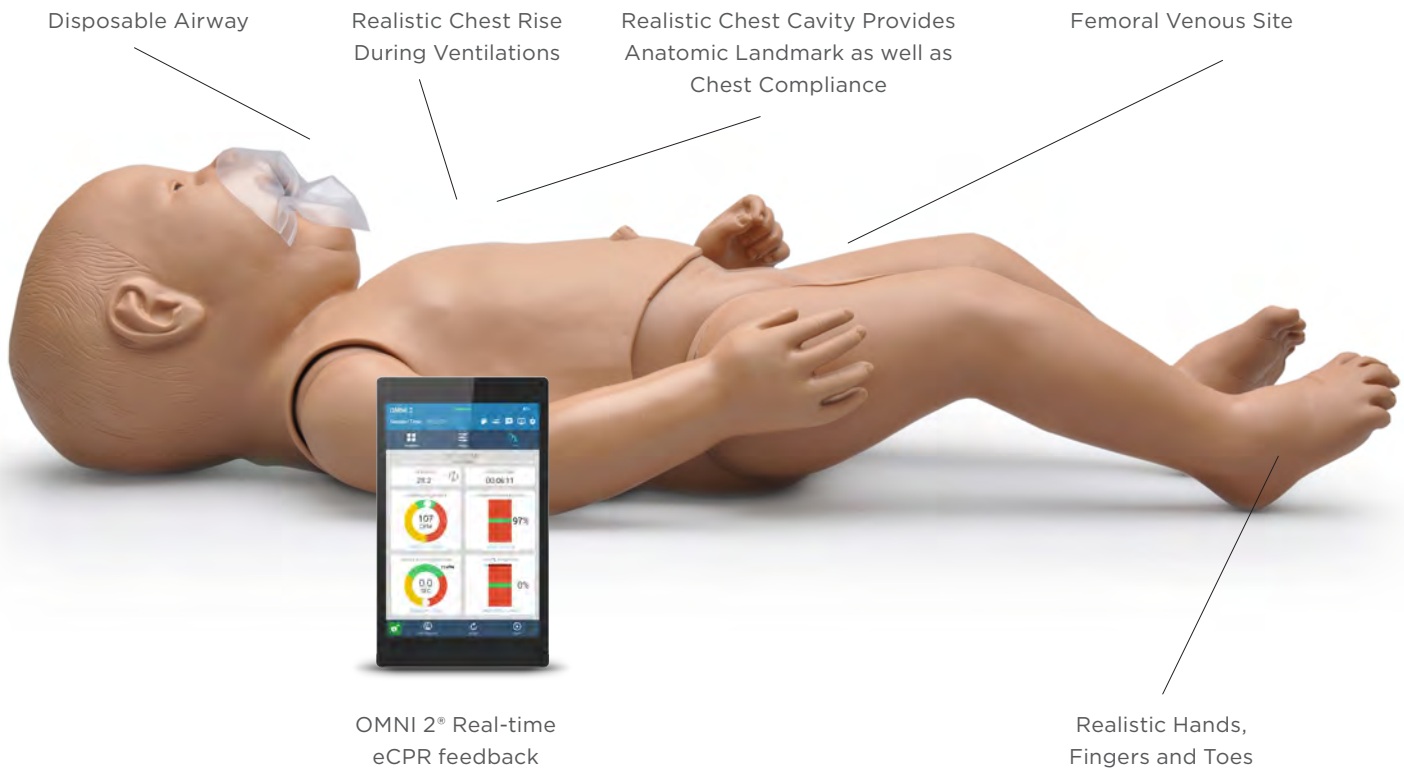
\$102

SUSIE/SIMON Basic


\$103

SUSIE/SIMON Basic

\$101



BASIC LIFE SUPPORT

 Bilateral Brachial, Right Femoral, and Left Popliteal Arterial Pulse Sites



Multiple arterial pulse sites



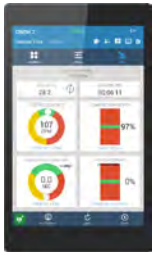
Realistic chest rise during ventilation



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
E CPR™ 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 240.

FEATURES FOR S104

- Fully articulating head and jaw with tongue
- SAFE CPR™ 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
- 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 body suit
- 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

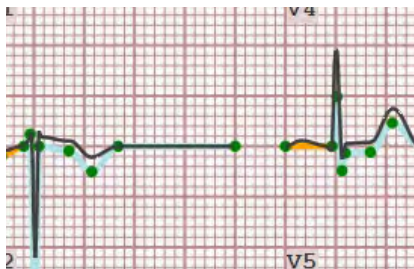
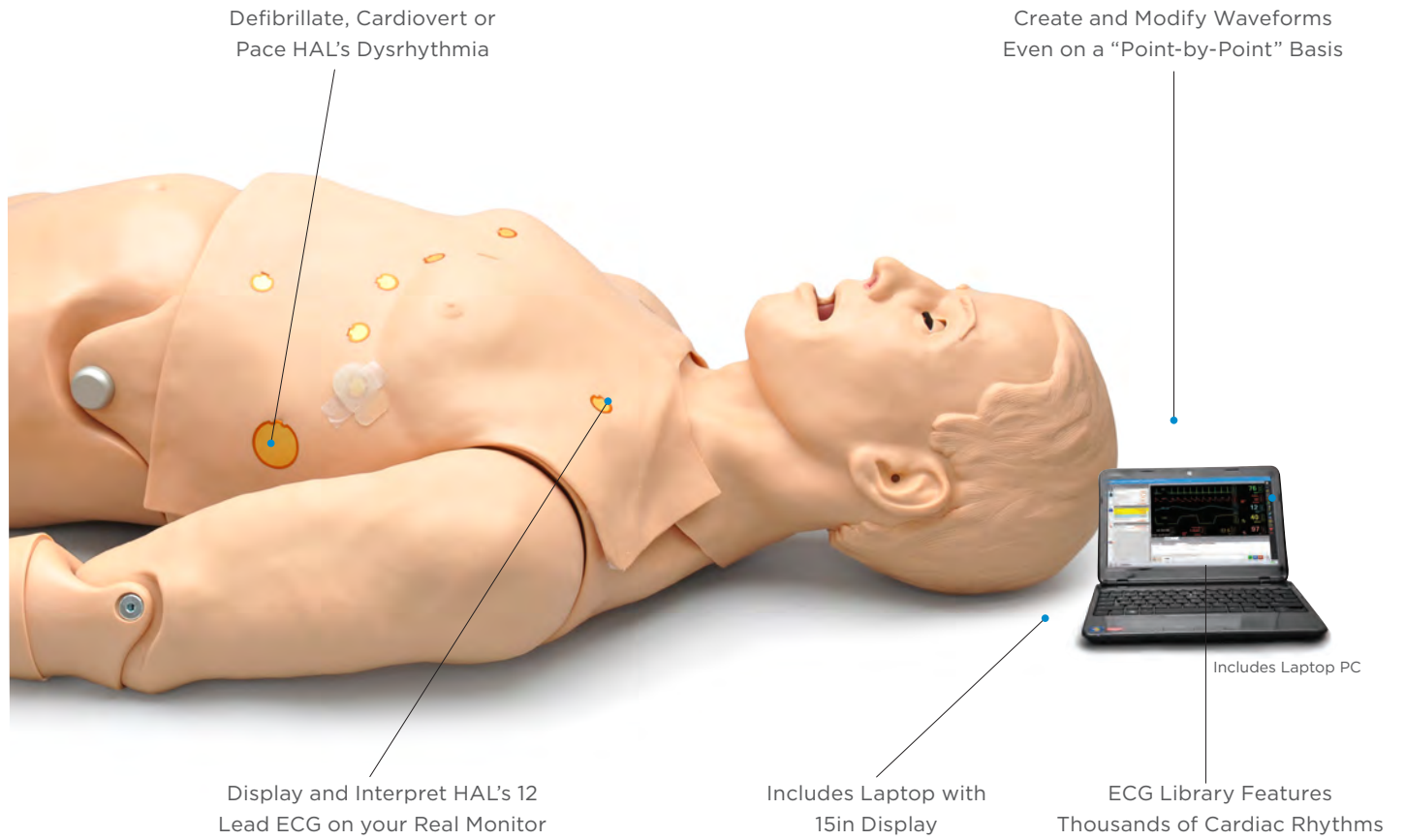


HAL[®] S1020

12-Lead ECG Skill Trainer

HAL® S1020 | Emergency Care Simulator

12 Lead ECG simulator with integrated myocardial infarction model



Specify additional 12 lead ECGs using our editing feature



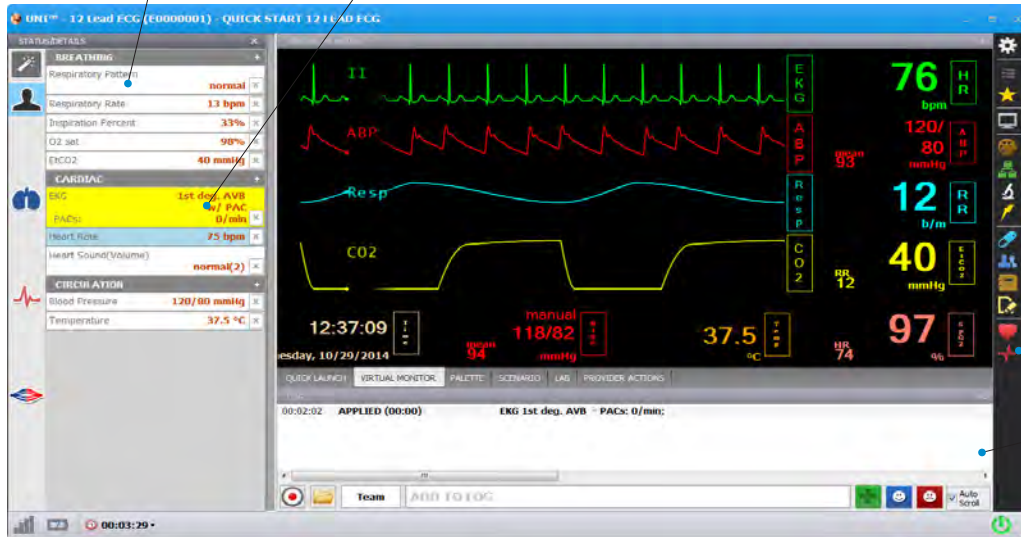
Defibrillate, cardiovert or pace HAL's dysrhythmia with a real AED



Use your real 12 lead ECG monitor

Status Window Shows HAL's
Current Physiologic State

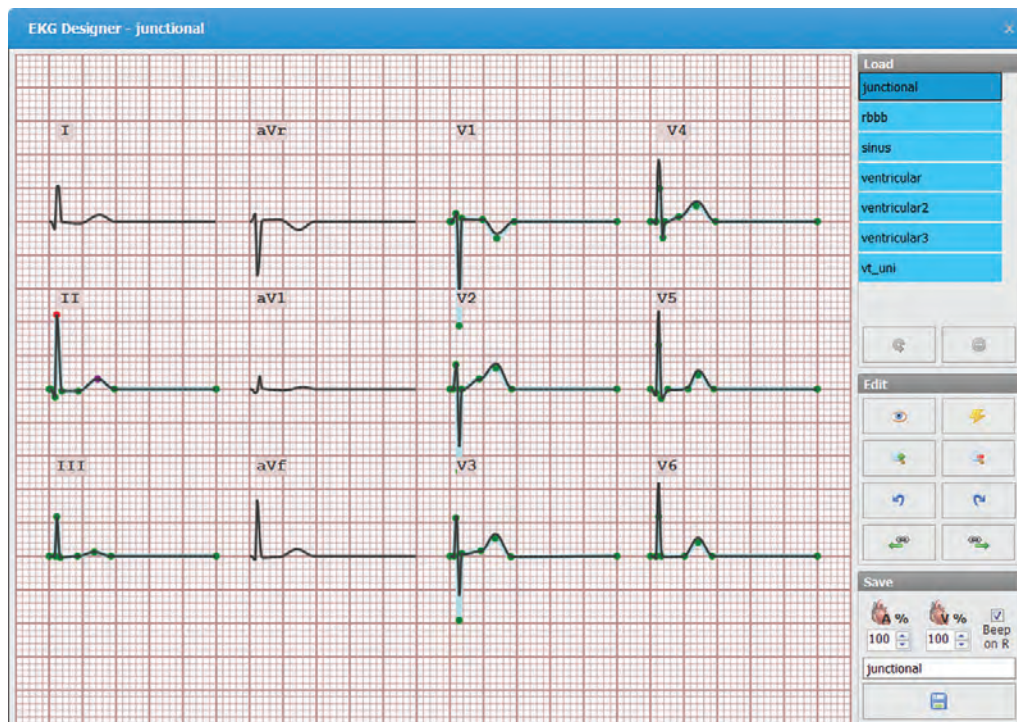
ECG Library Features
Thousands of Cardiac Rhythms



Display and Interpret
HAL's 12 Lead ECG

Automatic Event Log
for Debriefing

S1020 User interface displaying two dynamic ECG waveforms and 12 lead strip



Rhythm editor allows you to create and modify waveforms even on a "point-by-point" basis. Editor is so accurate; a REAL defibrillator will correctly interpret resulting waveform

HAL® S1020

S1020

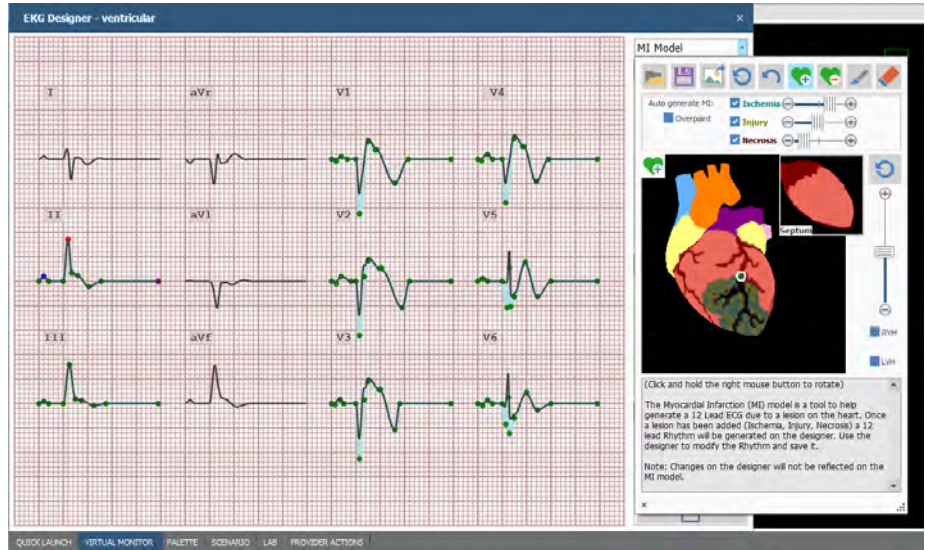
Patented; other patents pending

HIGHLIGHTS

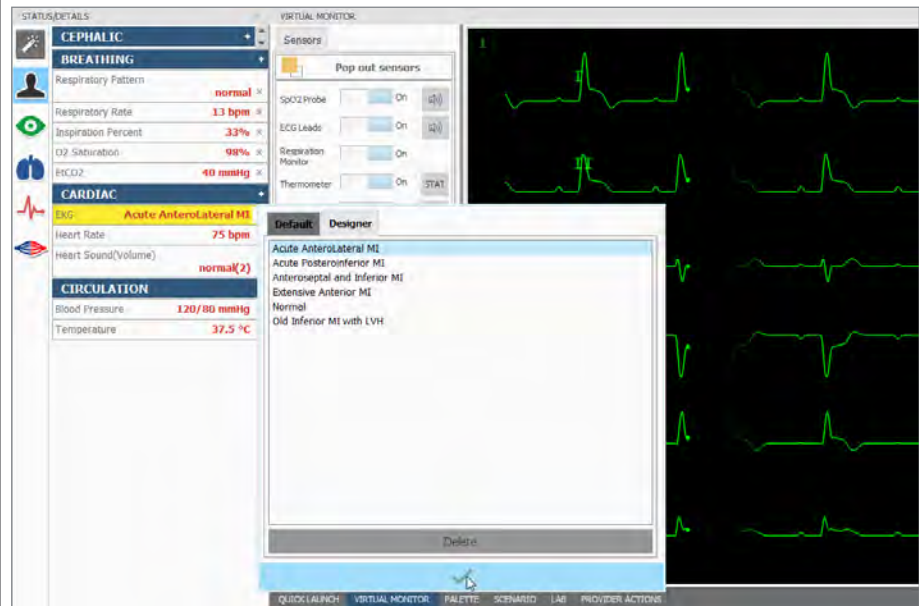
- Articulating adult HAL® full size body
- Available in ethnic skin tones
- Use your real 12 lead ECG monitor
- Display and interpret HAL's 12 lead ECG
- Improve diagnostic abilities
- ECG library features thousands of cardiac rhythms
- Specify additional 12 lead ECGs using our editing feature
 - » Create 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; 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
 - » Resultant dynamic 12 lead ECG quickly generated
 - » 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 dysrhythmia; 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 the auscultatory sites locations 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



HEART & LUNG SOUND ONE YEAR

S312.200

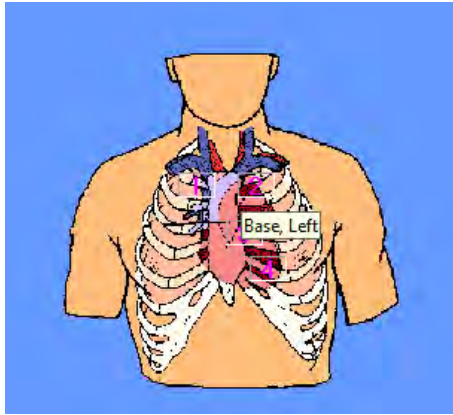


HEART & LUNG SOUND FIVE YEAR

S314.200



NURSING SKILLS TRAINERS



EXPERIENCE HEART & LUNG SOUNDS IN A VIRTUAL WORLD

S182 Adult

S183 Pediatric

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

HEART & LUNG SOUNDS ADULT

S315.200 Torso

FEATURES

- Full size adult torso with palpable anatomic landmarks
- 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 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

COMBINE WITH INTUBATABLE AIRWAY AND SAVE!

S315.300

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

HEART & LUNG SOUNDS FIVE YEAR AND ONE YEAR

S314.200 Five Year

S312.200 One Year

FEATURES

- Full size pediatric manikin with palpable anatomic landmarks
- 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 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!

S314.300 Five Year

S312.300 One Year

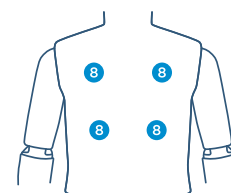
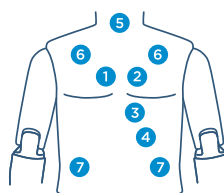
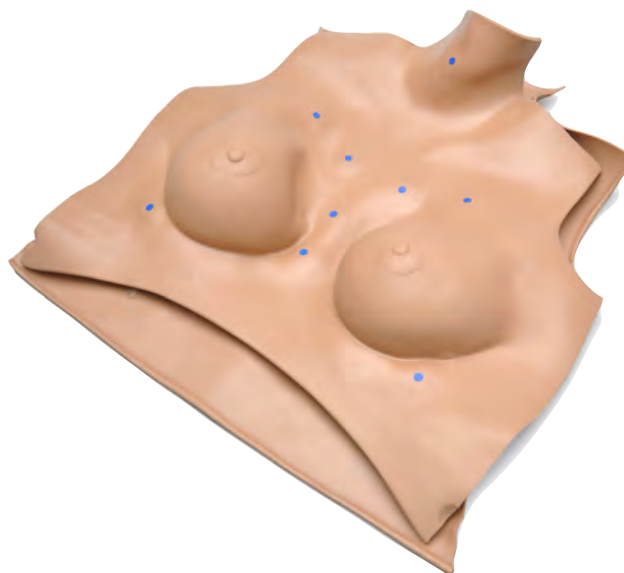
HEART AND LUNG SOUNDS UPDATE KIT - ADULT

S200.848 Susie Simon®

S222.848 Clinical Chloe™

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 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

FEATURES

- Update your Gaumard® manikin at your facility
- Convenient torso overlay with sensor network hidden beneath the skin
- Hear the appropriate heart and lung sound as bell of stethoscope 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

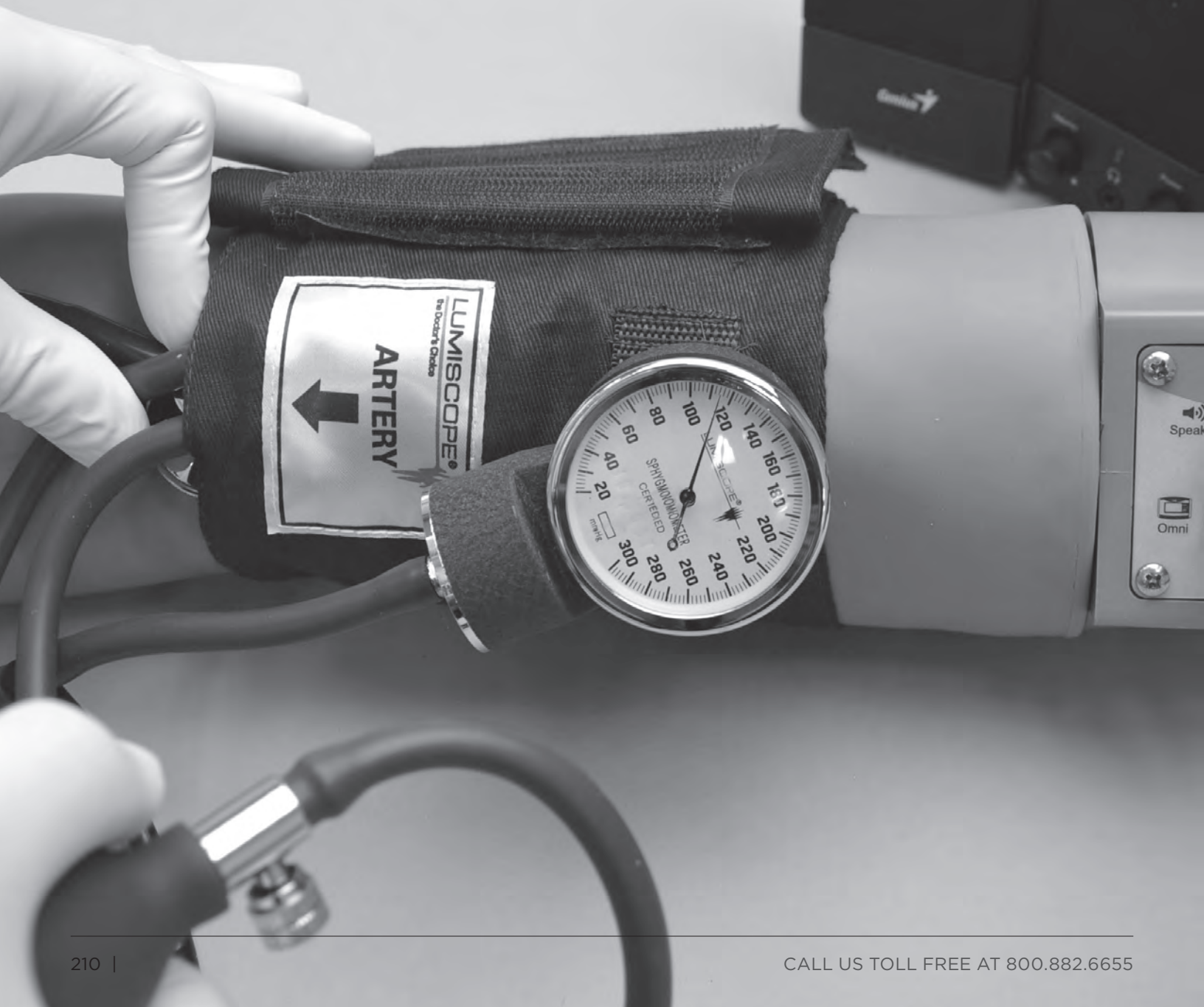
COLOR SOUND

- | | |
|--|---|
| <p>Red</p> <ul style="list-style-type: none"> ① Aortic Stenosis ② Systolic Fixed S2 ③ Pulmonary Stenosis ④ 6 Year Heart | <ul style="list-style-type: none"> ⑤ Normal Child ⑥ Wheezing Sounds ⑦ Wheezing Sounds ⑧ Ronchi Sounds |
|--|---|

- | | |
|--|--|
| <p>Purple</p> <ul style="list-style-type: none"> ① Aortic Stenosis ② Split S2 ③ Pulmonary Stenosis ④ 1 Year Heart | <ul style="list-style-type: none"> ⑤ Normal Infant ⑥ Wheezing Sounds ⑦ Wheezing Sounds ⑧ Ronchi Sounds |
|--|--|

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 manikin. 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.



FEATURES

- Full size left arm that may also be attached to Gaumard® manikin
- Programmable, palpable radial pulse when cuff pressure is less than the selected systolic blood pressure
- Korotkoff sounds K1 through K4 (K5 is silence) audible between systolic and diastolic pressures
- Korotkoff sounds automatically silenced if auscultation gap is selected
- Korotkoff sounds automatically adjusted depending upon selected heart rate and the rate of cuff deflation
- Conventional stethoscope to auscultate Korotkoff sounds in the antecubital area
- Programmable Blood Pressure Auscultation Tutor
- Adjustable systolic and diastolic pressures
- Adjustable auscultation gap
- Adjustable pulse rate
- Display tracks cuff pressure
- International power supply 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 244.



BLOOD PRESSURE TRAINING SYSTEM

Blood Pressure Training System with OMNI 2

S415.250

Blood Pressure Training System with OMNI 1

S415

BLOOD PRESSURE TRAINING SYSTEM WITH SPEAKERS

Blood Pressure Training System with OMNI 2 and Speakers

S415.100.250

Blood Pressure Training System with OMNI 1 and Speakers

S415.100

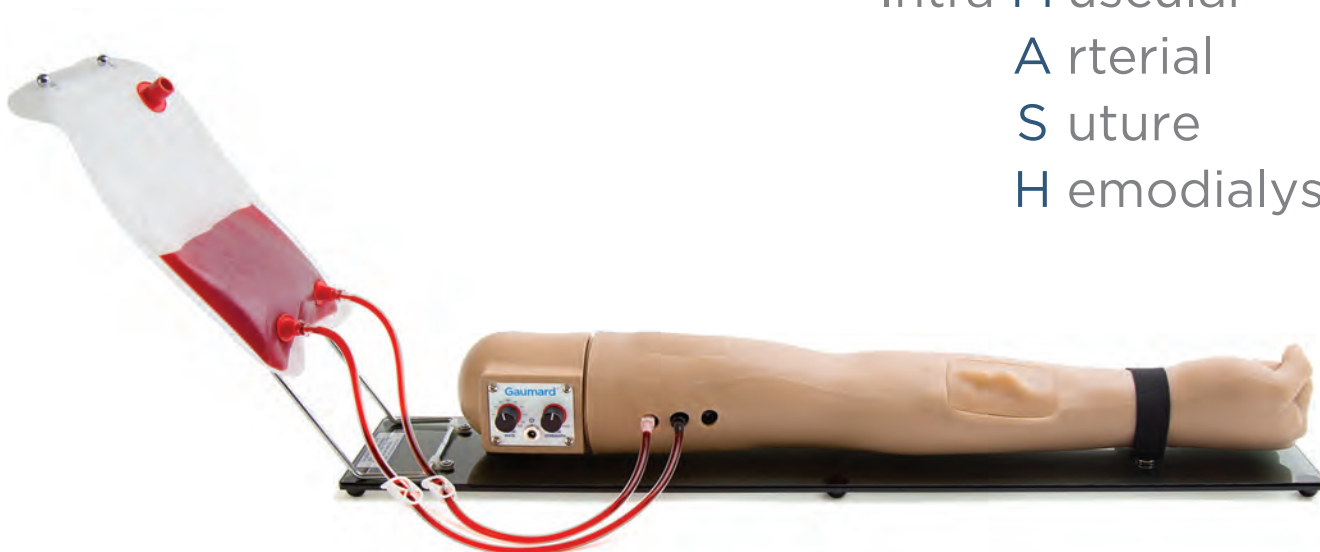
S.M.A.S.H. S402.100

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
I ntra 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 creation of arteriovenous (AV) fistulas and 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

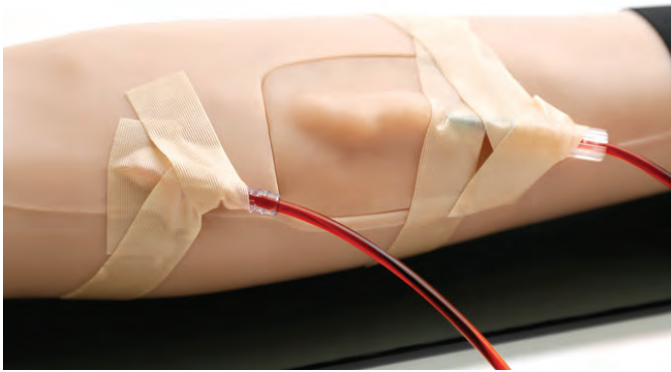
- Arterial and venous insert for IV and blood draw exercises, AV anastomosis, and AV graft placement. This multi-layer surgical insert includes the skin, subcutaneous tissue, muscle, radial artery, and radial vein
- AV fistula insert that simulates a healed fistula for hemodialysis exercises
- Multi-layer bicep insert that includes the skin, subcutaneous tissue, and muscle and allows incision and suturing exercises
- Durable skin that can be pierced in excess of 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\ Stand alone
- 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

S402.100

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

FISTULA INSERT

S402.100.912

INCISION & SUTURE INSERT

S402.100.913

ARM SKIN

S402.100.813 .L

S402.100.813 .M

S402.100.813 .D



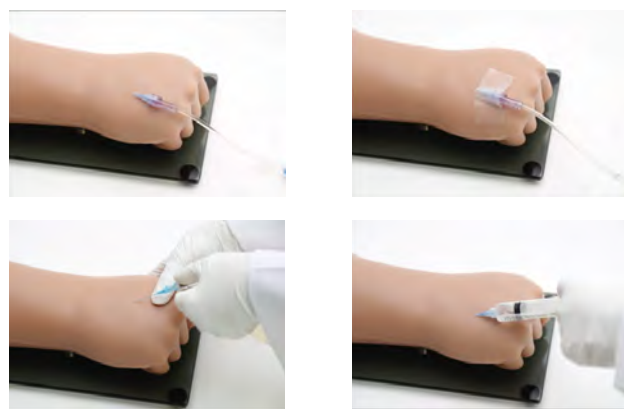
Arterial and venous blood sampling



Arterial and venous blood sampling



Arterial system providing palpable radial pulse



IV exercises on dorsum of hand

VEIN FILLING KIT

S402.100.985

SYNTHETIC BLOOD
CONCENTRATE

S402.100.812

IV BAG

S402.100.811

REPLACEMENT VEINS

S402.100.810

FISTULA INSERT

S402.100.912



ADVANCED MULTIPURPOSE VENOUS TRAINING ARM

S401.100

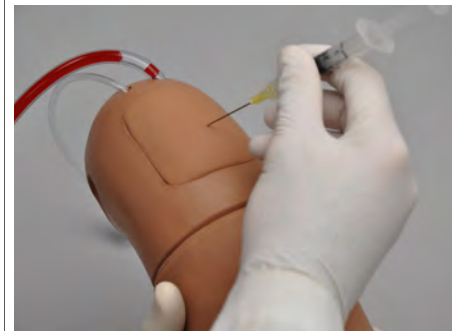
Combining all features required for IV, IM, and Sub-Q training in a challenging simulator.

- 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





MULTIPURPOSE VENOUS TRAINING ARM

S401

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 as well as both satisfactory familiarity with 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
- 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

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

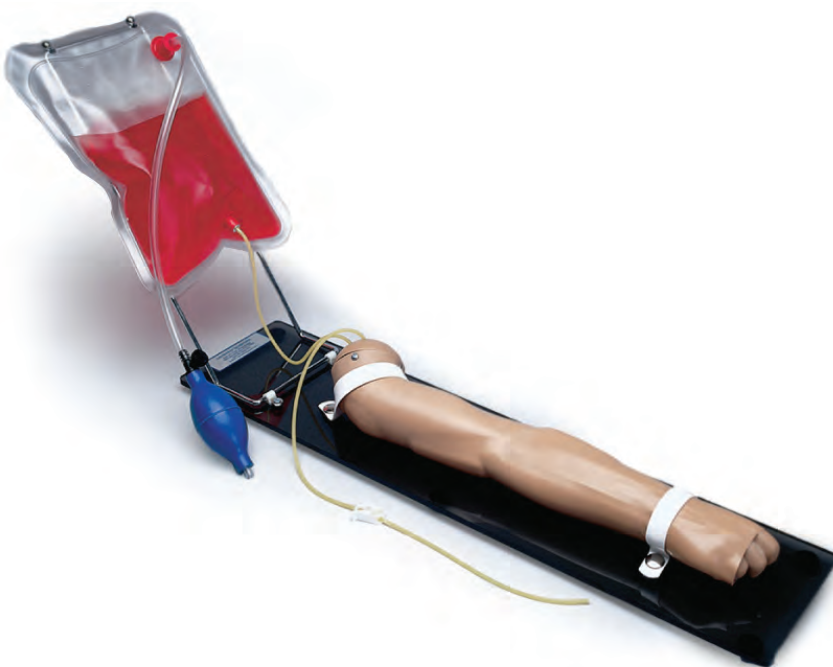
S406

NEWBORN INJECTION TRAINING ARM

S408



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

ONE GALLON SIMULATED BLOOD

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 permit practice of measuring proper catheter length from insertion site to second or third intercostal space and the confirmation of 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

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.

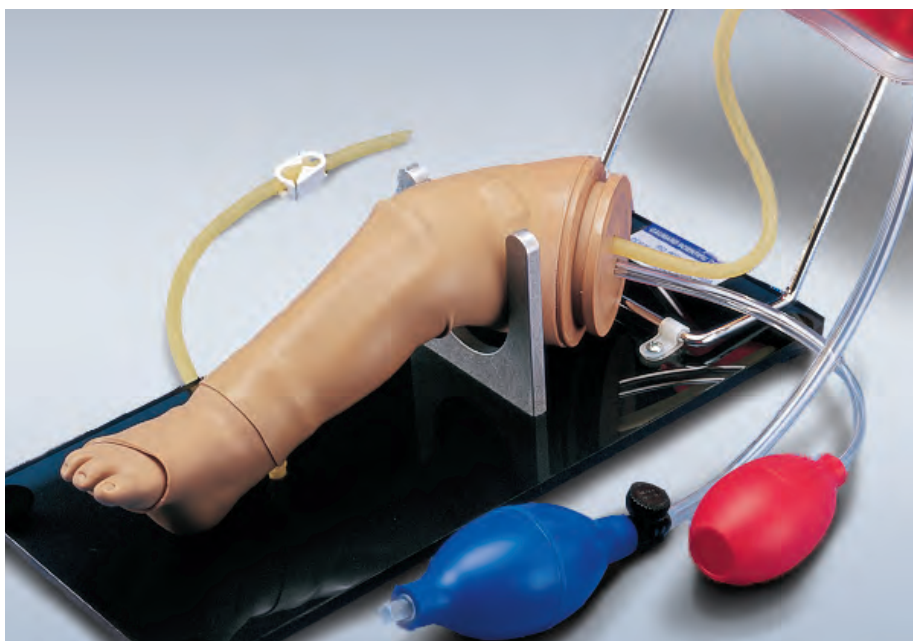
S407



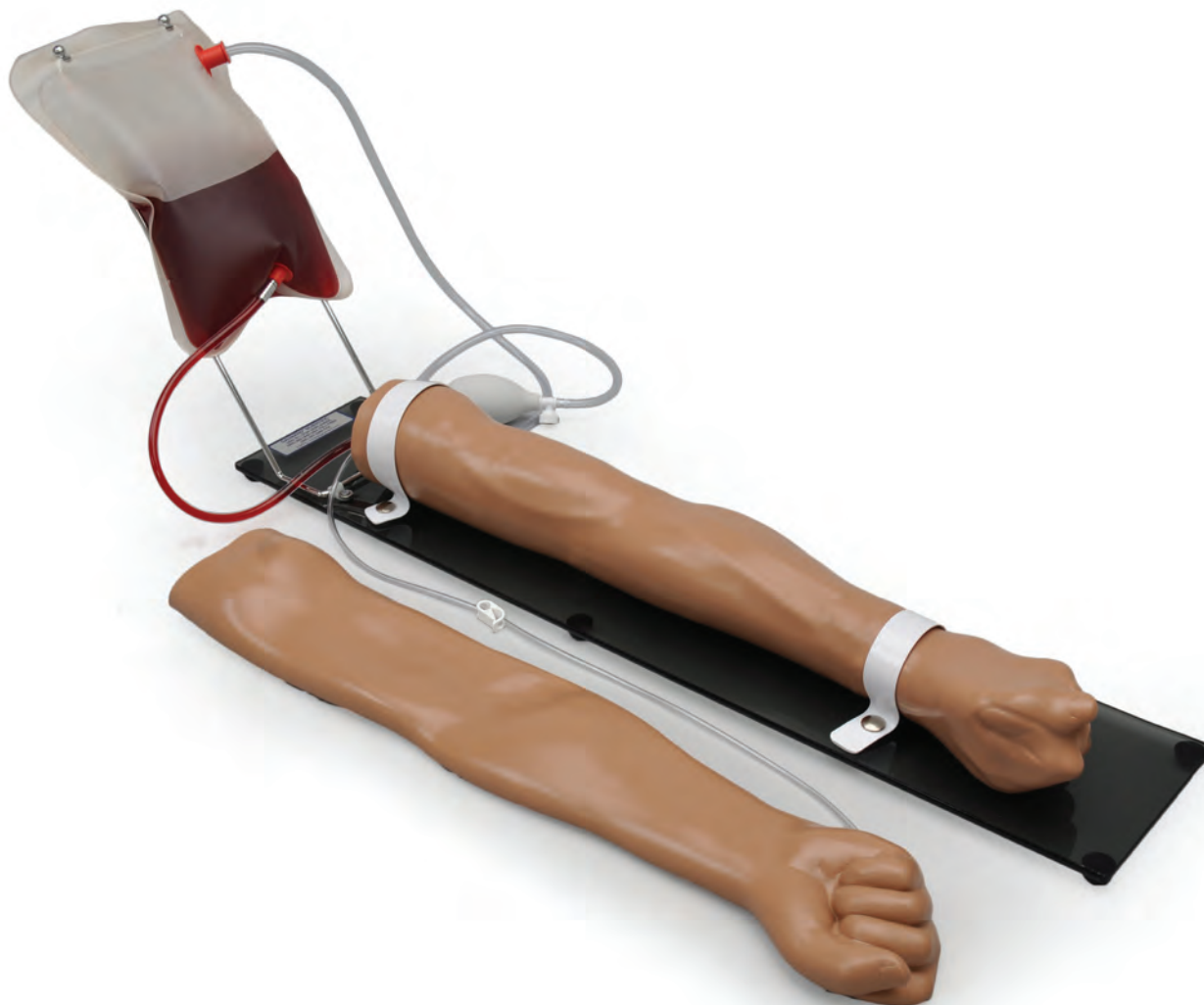
NEWBORN INTRAOSSEOUS INFUSION & INJECTION LEG

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



Insertion of intraosseous needle into bone marrow cavity



INTRAVENOUS TRAINING ARM

S400

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 SIMULATOR

S230.2

- 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 SIMULATOR

S230.3

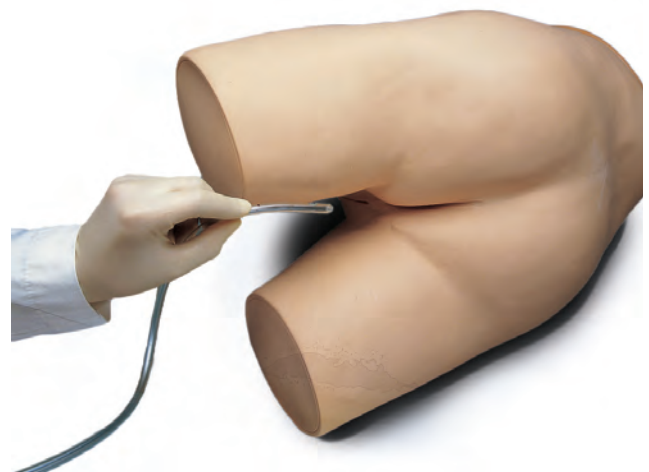
- 4 interchangeable modules depicting moderately enlarged benign prostate, a prostate with two discreet nodules, a prostate with an easily palpable large mass, and a prostate with malignant invasive cancer
- Prostates individually mounted on clear plastic cards for easy placement and removal
- Instruction manual
- Soft carrying bag



ADVANCED PATIENT CARE ENEMA SIMULATOR

S230.5

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

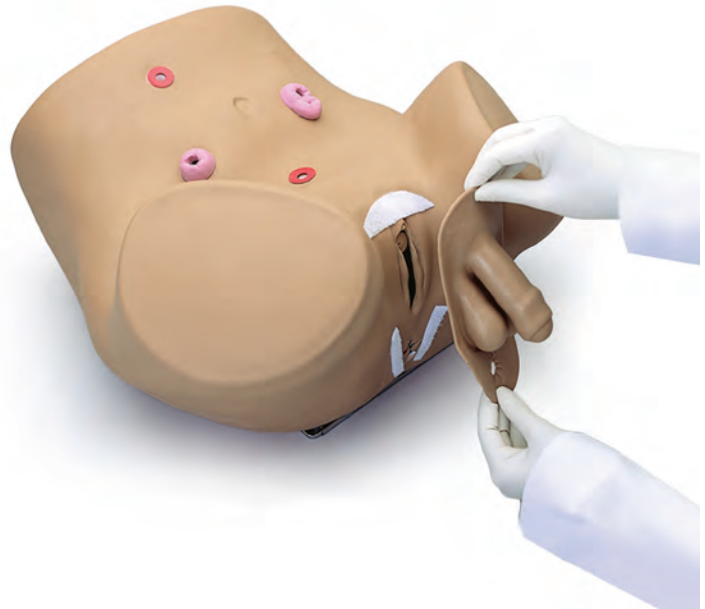


ADVANCED PATIENT CARE MALE AND FEMALE CATHETERIZATION SIMULATOR

S230.10

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.

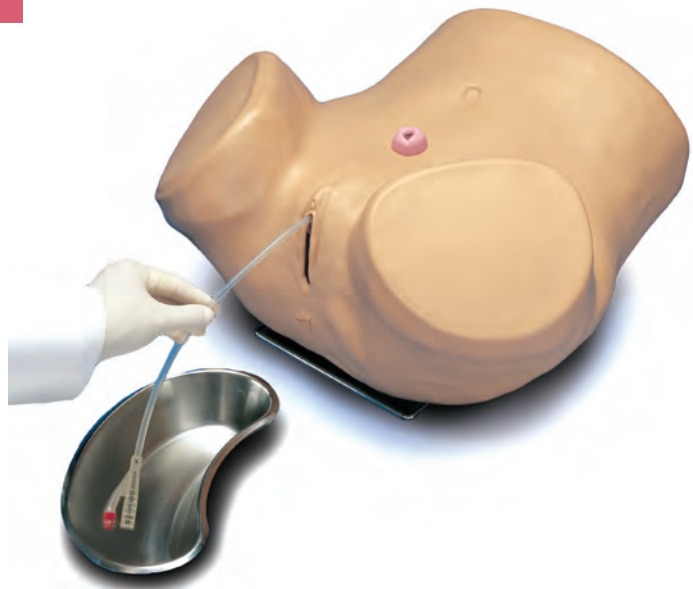
- Complete catheterization training
- Interchangeable, realistic male organ
- Fully functional stomas connected to removable, replaceable internal tanks
- Modular urethral valve to prevent fluid leakage
- Instruction manual
- Soft carrying bag



ADVANCED PATIENT CARE FEMALE CATHETERIZATION SIMULATOR

S230.6

- 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 injection of 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

Patents pending

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.



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 for training of breast examination. An assortment of malignant and benign tumors is included within both the mammary and axilla regions.

BREAST PALPATION

S230.40

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 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

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, and 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:** Scirrhous carcinoma is one of the more commonly encountered malignant tumors. When palpating, note the infiltrating nature of the growth. It has no well-defined borders and cannot be moved within the breast.



RIGHT BREAST #1: NORMAL BREAST

S230.40.853R.1

Includes carrying bag

RIGHT BREAST #2: GIANT SARCOMA WITH WILDLY GROWING MASSES

S230.40.853R.2

Includes carrying bag

RIGHT BREAST #3: INVERTED NIPPLE WITH “ORANGE SKIN” EFFECT

S230.40.853R.3

Includes carrying bag

LEFT BREAST #1: CHRONIC MASTITIS

S230.40.853L.1

Includes carrying bag

LEFT BREAST #2: BENIGN GROWTH

S230.40.853L.2

Includes carrying bag

LEFT BREAST #3: SCIRRHUS CARCINOMA

S230.40.853L.3

Includes carrying bag

ADULT UPPER TORSO

S230.40.870

Includes carrying bag



Left breast contains three cysts and six masses randomly placed in the breast and axilla

Right breast contains ten cysts of different sizes and depths

Ultrasound equipment not included

BREAST PHANTOM SIMULATOR

Left and right breasts attach to adult upper torso. The left breast permits ultrasound identification of cysts versus dense masses, while the right breast permits identification of cysts of different sizes and depths.

- Visualize masses and cysts using REAL ultrasound equipment
- Learn to do ultrasound guided needle aspiration in a relaxed environment before moving onto actual patients
- Realistic texture and look
- Self-Healing skin
- Breasts easily removed and assembled
- Use in either the upright or reclining position
- Indiscernible masses and cysts prompt students to resort to ultrasound imaging
- Medium skin tone standard
- Optional light or dark skin tone
- Soft carrying bag
- User Guide, containing technical information on how to care for and maintain the simulator

TORSO, WITH RIGHT & LEFT BREAST & CARRYING BAG

S230.52
Patents pending

REPLACEMENT BREAST PAIR

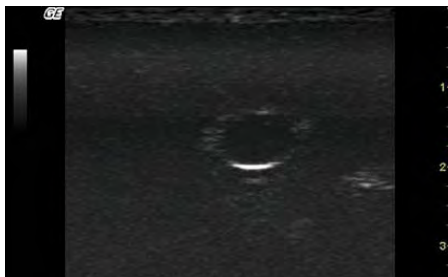
S230.52.853

LEFT REPLACEMENT BREAST

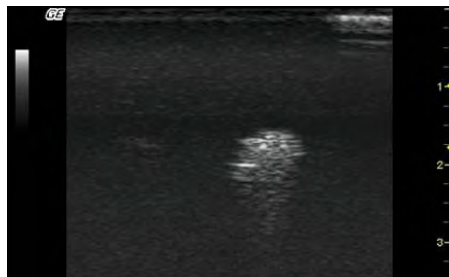
S230.52.853L

RIGHT REPLACEMENT BREAST

S230.52.853R



Ultrasound image from left breast showing cyst



Ultrasound image from left breast showing solid mass

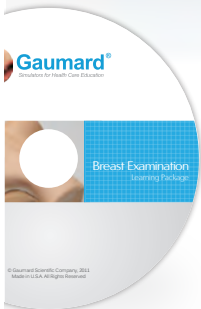


Remove fluid while seeing the cyst shrink and then disappear

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.



Includes a Breast Examination Learning Package CD, which provides health professional instructors with additional information and performance-based learning materials to assist students learn to perform breast examinations competently, and enable 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.



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

SELF BREAST EXAMINATION

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.

- 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

TORSO, WITH RIGHT & LEFT BREAST & CARRYING BAG

S230.42

Patents pending

REPLACEMENT BREAST PAIR

S230.42.853

LEFT REPLACEMENT BREAST

S230.42.853L

RIGHT REPLACEMENT BREAST

S230.42.853R

GYNECOLOGIC SKILLS TRAINING

- Anatomically accurate pelvic landmarks
- Realistic normal and abnormal cervixes and uteri
- Modular additions for growing curricula
- Practice and perfect 'sensitive' procedures

ZOE® S504.200



WOMEN'S
HEALTH SKILLS
TRAINERS



ZOE® GYNECOLOGIC SKILLS TRAINER

S504.200

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 cervixes for visualization with speculum
- Lifelike cervixes 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 cervixes
- (6) Abnormal cervixes
- Pregnant Cervixes
- (3) 6-8 week
- (3) 10-12 week
- Mineral oil
- Talcum powder
- Urine Kit
- Transport case
- Instruction manual

VULVA WITH INTEGRATED FISTULA MODEL

S504.200.700.1

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
- Minilaparotomy
- Fallopian occlusion
- Uterine sounding
- Bimanual examination
- Catheterization
- Rectal medication
- 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 cervixes & uteri

MODULAR ADDITIONS

Optional additional pathology packages

- Uteri external pathologies
- Uteri internal pathologies
- Fistulous tract models

UTERI WITH EXTERNALLY PALPABLE ABNORMAL PATHOLOGIES

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



UTERI WITH NORMAL AND ABNORMAL INTERNAL PATHOLOGIES

S504.200.236

Interchangeable uteri for hysteroscopic viewing

PACKAGE CONTENTS

- Normal Anteverted Uterus
- Uterus with polypoid
- 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

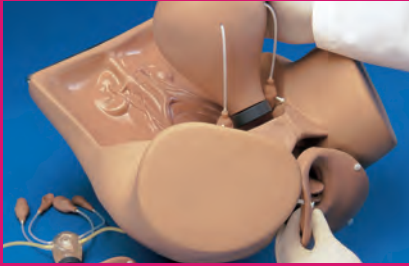
ZOE® GYNECOLOGIC SIMULATOR

Quite simply, the very best gynecologic examination simulator available. Designed by physicians for physicians and healthcare providers, ZOE® combines the ability to demonstrate multiple gynecologic procedures as well as practice laparoscopic examination and minilaparotomy.

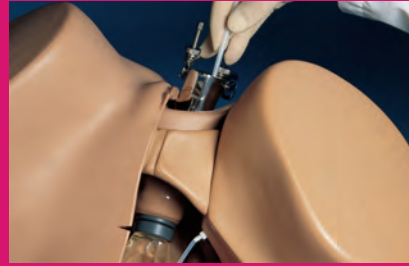


Patents 5,472,345 and D352,313

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 insertion of speculum
- Visual recognition of normal and abnormal cervixes
- 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 cervixes with patent os
- 4 abnormal cervixes
- 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

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 cervixes



Interchangeable uteri

HYSTEROSCOPY SIMULATOR

S607

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

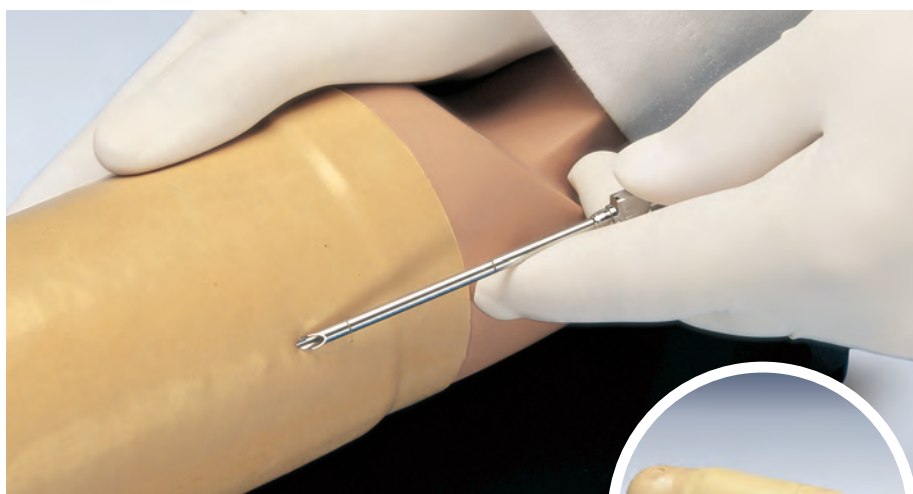
RITA™ REPRODUCTIVE IMPLANT TRAINING ARM

S519

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

GYN/AID® GYNECOLOGIC SIMULATOR

S503

Patent 5,472,345

One of our most popular products! The full size female adult lower body gives students and educators a graphic experience in vaginal speculum examination, bi-manual pelvic examination, IUD insertion techniques, diaphragm sizing and fitting, uterine sounding, and viewing of normal and abnormal cervixes.

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 cervixes 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 cervixes with cervical abnormalities
- Anatomically accurate fimbriae and ovaries
- Talcum powder
- Instruction manual
- Soft carrying bag



CERVICAL REPLICAS

S505

Patent 5,472,345

This "desk-top" 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



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

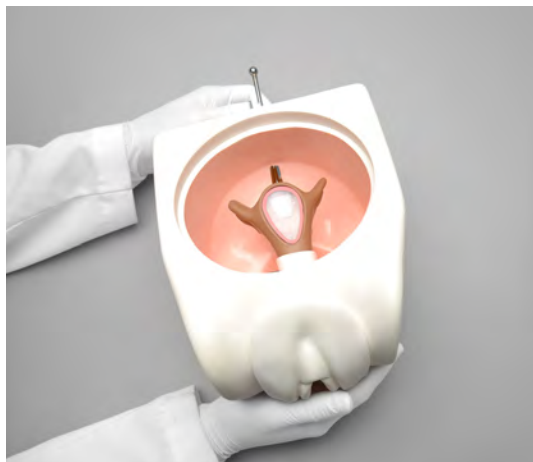
- Coronal section of uterus, ovaries, and fimbriae
- Clear plastic window permits easy viewing of IUD

FAMILY PLANNING EDUCATOR

Our family planning educator is a popular "desktop" simulator for demonstration of introduction and removal of an IUD, diaphragm, and sponge contraception 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 may be 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



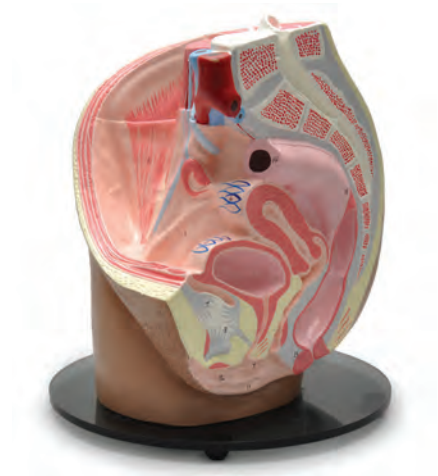
FEMALE PELVIC ORGANS III

S511

A superb sagittal view artwork model that displays 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, as well as totally 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



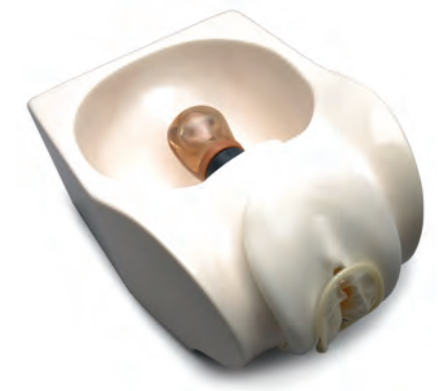
FEMALE CONDOM MODEL

S509

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

FEATURES

- Demonstration of use of 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

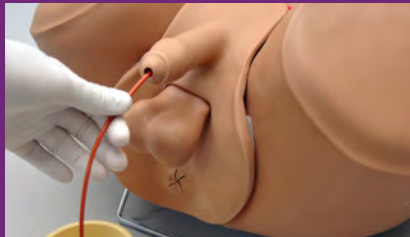


ZACK™ MULTIPURPOSE MALE CARE SIMULATOR

S230.11

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 malignant invasive cancer
- Realistic penis and two scrotal sacks; one scrotal sack is normal, 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



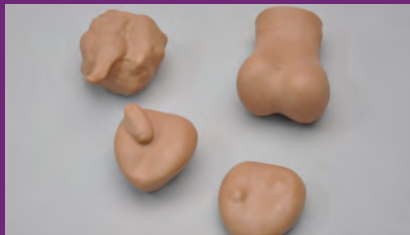
Internal bladder permits catheterization exercises



Locate nine tumors using endoscope



Perform digital examination using four interchangeable prostates



Check for testicular lumps



Conduct testicular self examination



Observe typical colon tumors

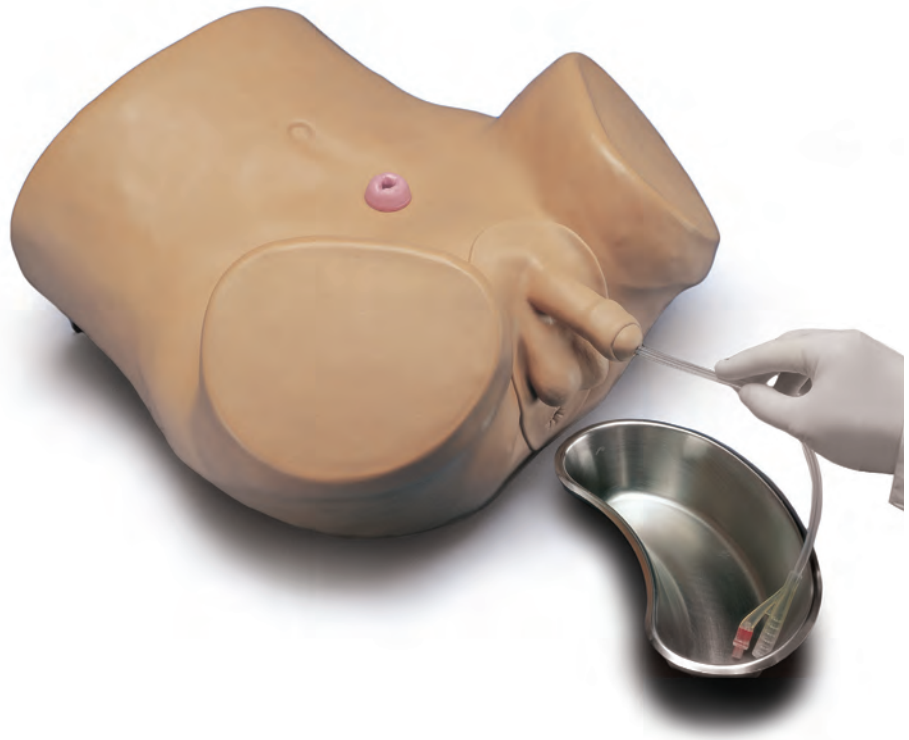
MEN'S HEALTH

ADVANCED PATIENT CARE MALE CATHETERIZATION SKILL TRAINER

S230.7

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

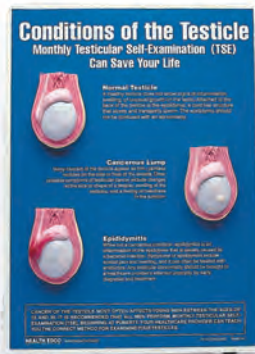
An excellent model for demonstration and “hands-on” experience in use of a condom. The model is manufactured in a soft, flexible vinyl and is adaptable from a flaccid to an erect state. Mounted on a smoked Lucite stand. Supplied with instruction manual.



CONDITIONS OF THE TESTICLE

W501

Shows the importance of 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 in learning 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





OMNI[®]2

Simulation Made Easy[™]

- Wireless mobility
- Lightweight, touch screen interface
- On-the-fly physiological controls
- Real-time eCPR[™] feedback and reporting
- Virtual patient monitor support
- Compatible with 40+ Gaumard patient simulators and skills trainers



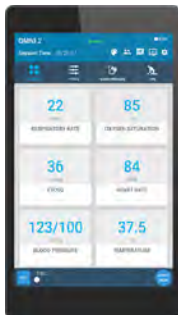
OMNI[®]2 SIMULATION MADE EASY™

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

SIMPLE, INTUITIVE, & WIRELESS

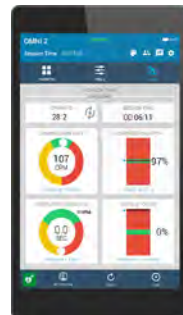
With just a few taps, the all-new OMNI 2 makes it easier than ever to manage vitals, monitor performance, and capture event data for debriefing. And now featuring wireless communication, it means you are free to move in and around the exercise to get the best view of the action.

WIRELESS CONTROL



- Touch controls facilitate on-the-fly changes or trend over time
- Over 35 programmable vitals: HR, ECG, RR, BP, SpO2, EtCO2, 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, vital signs changes, 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 learn critical thinking and decision making skills.

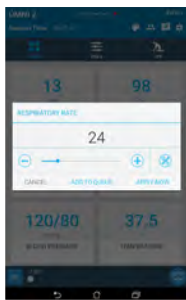




READY FOR TRAINING. JUST TAP AND GO.

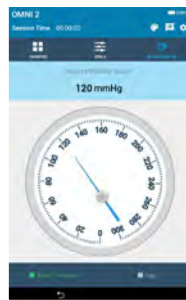
OMNI 2 is compatible with over 40 Gaumard patient simulators and skills trainers. Starting a session is fast and easy. Once paired, OMNI 2 automatically detects your simulator's features to show you just the tools you need. Say hello to versatility.

NURSING SKILLS



On-The-Fly Controls

Update any of 35+ vitals with just a few taps



BP Skills Trainer

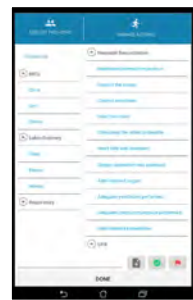
Monitor readings and correct technique in real-time

NEONATAL RESUSCITATION



Resp. Distress Management

Monitor ventilation quality and its effects on cyanosis



Algorithm Checklists

Easily track provider actions and exercise objectives



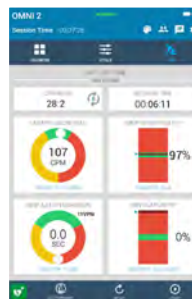
Automatic Delivery Controls

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

GENERAL

- Wireless connectivity up to 30 feet
- Lightweight tablet form factor
- High-definition touch screen 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 tutorial walk-through

PHYSIOLOGICAL CONTROLS*

- Control 35+ vital sign parameters including: HR, ECG, RR, BP, O2SAT, ETCO2, and more*
- Update vital sign values on-the-fly
- Trend vital sign value increases or decreases over time
- Update group of vital sign values with one touch
- Comprehensive ECG library with 25+ preprogrammed rhythms
- BP Skills trainer mode
- Virtual pressure gauge view
- Programmable auscultatory gap
- Pulse strength dependent on blood pressure

LABOR AND DELIVERY

- One-touch automatic delivery controls: play, pause, resume, 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 chargesv

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 adult 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.

OPTIONS

OMNI 2

OMNI2

Stand alone OMNI 2 system for "OMNI® 2 Ready" patient simulators and skills trainers.

PACKAGE CONTENTS

- Touch screen tablet
- OMNI 2 Software license
- USB cable
- Protective case
- Quick start guide



OMNI 2 UPGRADE

OMNI2.U

The OMNI 2 Upgrade Package includes everything you need to upgrade your OMNI 1 capable simulators with the new wireless OMNI 2.

PACKAGE CONTENTS

- Touch screen 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

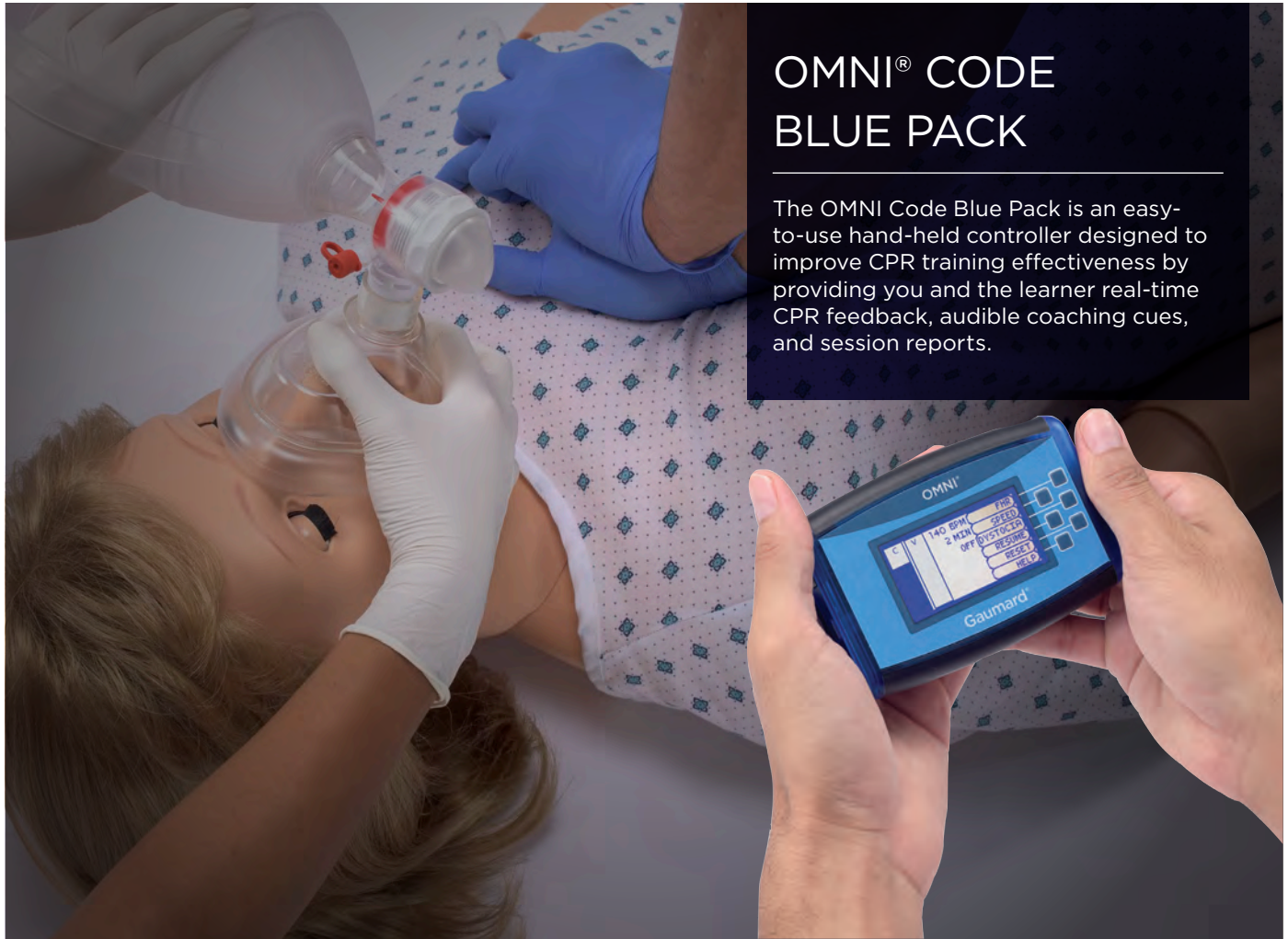
22" All-in-one touch screen PC preloaded with Gaumard VM patient software.

250.001.R2

MOBILE PATIENT MONITOR

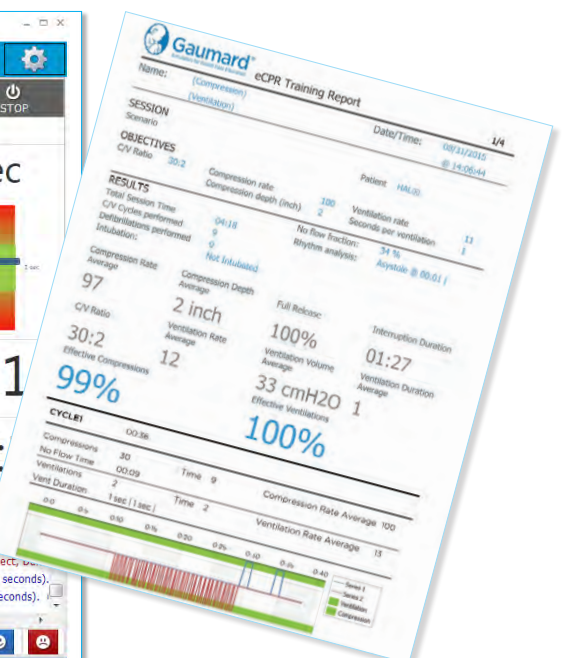
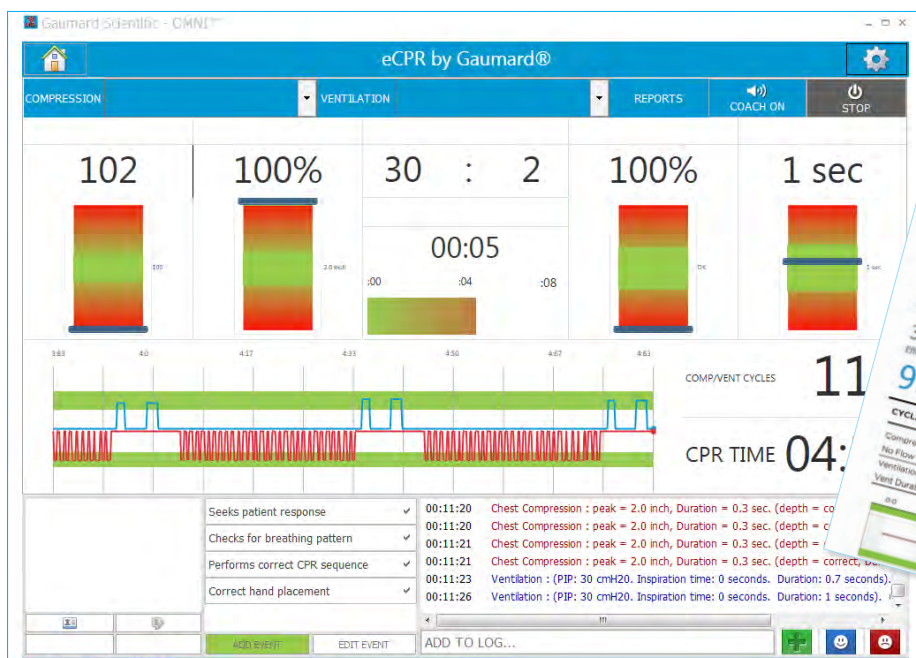
Touch screen tablet PC preloaded with Gaumard VM patient software.

250.002



OMNI® CODE BLUE PACK

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





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
- Pre-installed CPR module inside your simulator
- 1 CPR Link cable and software; for monitoring CPR on any Windows® computer

*PC sold separately



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



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

TRAIN



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

EVALUATE



INSTRUCTOR MODE

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

DEBRIEF

CV Ratio	30:2	Compression rate	100	Ventilation rate	12
Compression Ratio	30:2	Compression Rate (b/min)	100	Ventilation Rate (b/min)	12
RESULTS					
Total Session Time	04:58	No Flow Fraction	38%	Hyphen analysis	Available (if 90-95)
CV Cycle performed	0				
Disturbances (optional)	0				
Substitution	Not Available				
Compression Rate Average	97	Compression Depth Average	2 inch	Full Release	100%
CV Ratio	30:2	Ventilation Rate Average	12	Ventilation Volume Average	33 cmH2O
Effective Compressions	99%	Effective Ventilations	100%	Interruption Duration	01:27
DETAILS					
Compressions	30	Time	4	Compression Rate Average	100
Hyphen Ratio	0000				

eCPR™ REPORT

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

LEARNING MODULES



S.T.A.B.L.E.® A PROVEN PLATFORM

A complete simulation curriculum designed for comprehensive neonatal resuscitation and stabilization care.

SUGAR AND SAFE CARE
TEMPERATURE
AIRWAY
BLOOD PRESSURE
LAB WORK
EMOTIONAL SUPPORT



With over 250,000 students to date, S.T.A.B.L.E. is the most widely distributed and accepted neonatal education program to focus on the post-resuscitation / pre-transport stabilization care of sick infants. Although familiarity with S.T.A.B.L.E. is helpful it is not required for use of these scenarios.

SCENARIOS

- Maxwell Johnson (3 scenarios)
36 week IDM, LGA shoulder dystocia, vacuum assist with two popoffs.
- Chris Anderson (3 scenarios)
5 day old term infant admitted from home in shock.
- Chelsea Hamblin (3 scenarios)*
37 weeks, SGA infant with a socially complicated maternal situation. Cardiac and surgical care. *A complex delivery room resuscitation branching scenario is also included.
- Hanna Davis (3 scenarios)
Unplanned home delivery at 32 weeks gestation. Advances to 8 day old and 16 day old NICU scenarios. For those customers with a Premie HAL® mannequin, all 3 branching scenarios are also included.

SCENARIO COMPONENTS

- Scenario synopsis for the facilitator
- Interprofessional participants and scenario start options
- Timeline
- What will happen
- Scenario challenges or variations
- Confederate scripts
- Maternal/infant record or hand-off reports for nursing and medical staff
- Hand-off labs and x-rays
- Other labs
- X-rays (as applicable)
- Bedside photo of the baby
- Algorithms (as applicable)
- Objectives worksheets
- Mannequin staging worksheet

THE BENEFITS

VALIDATED

Scenario validation sessions have been held since 2009 where panels of experts and staff from hospitals and simulation centers across the United States have reviewed and validated each scenario.

INTERPROFESSIONAL

All scenarios are designed to involve inter-professional participants including: a medical staff provider, nurses, respiratory therapists and backup team members if required.

COMPREHENSIVE

Includes everything you need in one package: Neonatal Stabilization Scenarios Guidebook, Facilitator DVD and CD-ROM with videos and facilitator file documents, ARAR™ Model of Care poster, and activation codes to unlock scenarios for the Newborn HAL® simulator.

COMPATIBLE

Each scenario in the Guidebook is provided with a corresponding branching scenario in the Newborn HAL® software, providing a seamless integration between curriculum and simulation.

COMPLETE S.T.A.B.L.E PROGRAM PACKAGE

CD100

Includes CD101 and CD 102

SCENARIOS GUIDEBOOK

CD101

STABILIZATION SCENARIOS

CD102

requires CD101

INCLUDES

NEONATAL STABILIZATION SCENARIOS GUIDEBOOK

Contains supporting materials for all 12 scenarios; including scenario synopsis and timeline, scripts, hand-off reports, confederate scripts, x-rays and labs, objectives worksheet, mannequin staging checklists, and more...

FACILITATOR DVD & CD-ROM

Contains multiple videos and documents for both instructors and students.

S.T.A.B.L.E. MODEL OF CARE POSTER

Crisis can be averted through the application of effective crisis management behavior. This poster was created for scenario participants to remind them of key elements of effective communication.

NEWBORN HAL® SCENARIOS

Purchase includes activation codes to unlock Neonatal Stabilization Scenarios for your Newborn HAL® simulator.



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Coral Gables, Florida 33114-0098

Toll Free USA
Call 8:00 a.m.- 7:30 p.m. ET
Monday - Friday
800.882.6655

Worldwide
305.971.3790

Fax
305.252.0755
Twenty-four hours

Web Site
www.gaumard.com

Sales / Customer Service
sales@gaumard.com

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About Gaumard®

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Warranty

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

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Phone: 786-478-3838

On-line Support 24/7

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www.gaumard.com



Gaumard®
Simulators for Health Care Education

2017

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