



Gaumard®
Simulators for Health Care Education



NOELLE®
www.gaumard.com

NOELLE® S575.100

Advanced Maternal and Neonatal
Birthing Simulator

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

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



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

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

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



Realistic fetal palpation

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



Automated precision delivery system

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



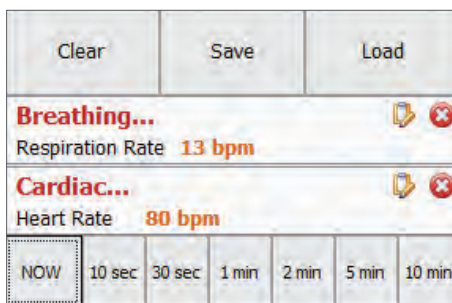
Dystocia management

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



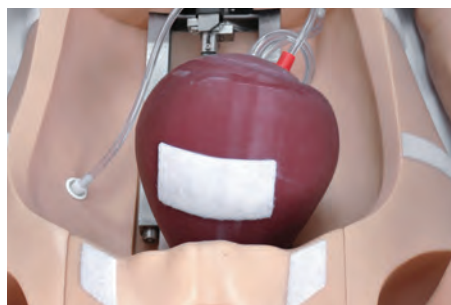
Placenta

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



Scenario library

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



Postpartum activity

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



Wireless and tetherless

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



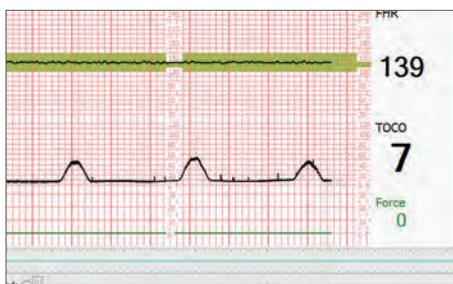
Patient assessment

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



Precision repeatability

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



Real-time feedback

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



Use real devices

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



Vertex delivery

The motor automatically controls descent and rotation.



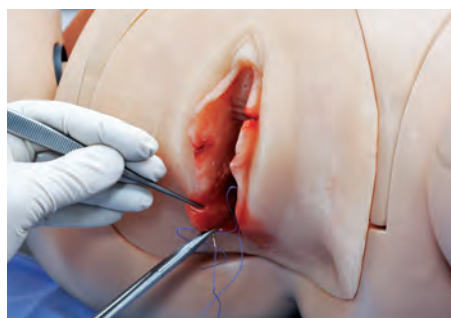
Epidural procedures

Palpable anatomical landmarks and needle placement detection.



Pelvic landmarks

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



Episiotomy repair

Inserts simulate human tissue for practicing suture skills.

NOELLE delivery neonates.

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

Cephalic delivery baby.

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

Breech delivery baby.

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



Shoulder dystocia

Lifelike shoulder dystocia presents fetal head retraction “turtle signs.”



Assisted delivery

Practice assisted vacuum extraction and forceps deliveries.



Breech delivery

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



C-section delivery

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

Advanced neonatal resuscitation training solutions.

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



NOELLE® with Newborn TORY® package

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



NOELLE® with Premie HAL® package

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

Powerful yet intuitive.

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



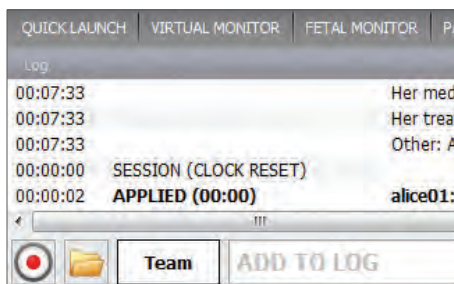
eCPR™

Monitor CPR quality metrics in real-time, including rate and compression depth, non-flow time, and excessive ventilation.



Perinatal monitor

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



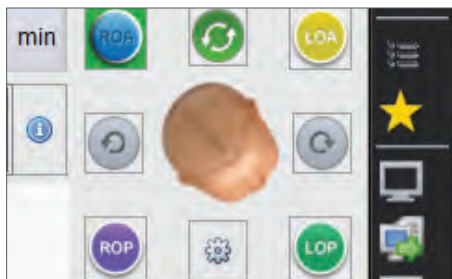
Events log

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



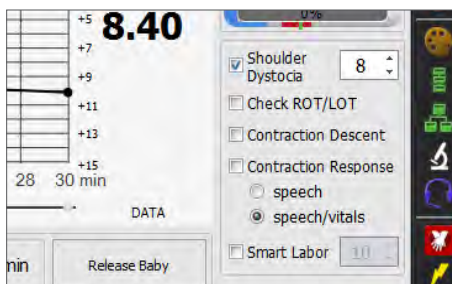
Labor control and descent curve

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



Cardinal movements

Precise control over both fetal translation and rotation.



Shoulder dystocia

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



Includes interactive patient and fetal monitor.

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

Gaumard Vitals™ Virtual patient monitor

- Touchscreen patient monitor all-in-one PC.
- Display up to 12 parameters including HR, ABP, CVP, PAWP, NIRP, CCO, SpO₂, SvO₂, RR, EtCO₂ temperature, and time
- Customize each trace independently; users can set alarms and timescales
- Share images such as x-rays, CT scans, ultrasounds, lab results, and even multimedia presentations as the scenario progresses
- Interactive perinatal monitor with programmable fetal heart rate, variability, accelerations, decelerations, uterine contractions, frequency, and intensity
- Trace history w/ print out capability

Features

NOELLE features

- Weight 70 lbs. / 32kg, height 69 in / 175 cm
- Realistic neck, shoulder, elbow, hip, knee, and ankle articulation
- Supports birthing on stirrups, foot paddles, and gaskin position
- Wireless and tetherless¹
- Internal rechargeable battery provides up to 3 hrs. of tetherless operation²
- Pneumatic and fluid reservoirs are housed inside the body
- NOELLE Fetus-Newborn wireless link capability

Labor and Delivery

- Automatic and fully programmable birthing mechanism simulates descent and cardinal movements
- Precise labor scenario repeatability for competency-based training and assessment
- 9 Labor and Delivery SLEs
- Facilitator's Guidebook
- Delivery warp factor: simulate lengthy labor scenarios as fast as 2 minutes
- Easily create and share your own scenarios
- Change maternal, fetal, or delivery conditions on-the-fly
- ROA, LOA, LOP or ROP positions simulate OA or OP deliveries
- Palpation abdominal cover features fetus in an amniotic sac for realistic Leopold's and version exercises
- Practice epidural procedures on a spinal cord insert with skin layer, subcutaneous layer, connective tissue, and lumbar vertebrae
- Epidural placement detection
- Monitor traction applied to the fetal head and body
- Anatomic landmarks include bilateral ischial spines, coccyx, and pubic bone
- Realistic birth canal with dilating cervix
- Fetus rotates, dips, and rises during delivery
- Palpable contractions
- Programmable intrapartum bleeding
- Simulate placenta previa, retained placenta, and retrained fragments complications
- Simulate cord complications including nuchal cord, cord prolapse, true knots
- Replaceable cord supports clamping and cutting
- Shoulder dystocia: realistic retraction of the fetal head against the perineum
- Turtle signs are synchronized with contractions and fetal heart rate shown on the fetal monitor
- Strong hip-joints allow for McRoberts maneuvers

- Programmable dystocia so that each student receives exactly the same scenario
- Supports Wood's screw, arm sweeps, Lovset, and more
- Breech delivery: articulating hip and knee joints allow realistic Frank, complete, and footling breech delivery simulations
- Supports forceps and vacuum-assisted delivery using real instruments
- C-section deliveries: supports abdominal incision using real surgical instruments.
- Abdominal skin features subcutaneous, fascia, rectus muscle, and peritoneum
- Palpable fundus with programmable uterine contractions
- Internal 900mL hemorrhage reservoir
- Uterine bleeding: manage uterine hemorrhage using medications or a balloon tamponade
- Episiotomy repair inserts simulate human tissue that can be sutured closed repeatedly
- Vertex and breech fetus included
- Head features fontanelles and sutures
- Head flexes as it moves through the birth canal

Neurological

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

Airway

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

Breathing

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

- Automatic, spontaneous chest rise
- Normal and abnormal breath sounds
- Anterior auscultation sites

Circulation

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

Gaumard Vitals Monitor

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

NOELLE® Package Contents

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

Newborn TORY® S2210 features

- Age: 40-week term newborn
- Weight 6 lbs. / 2.7kg
- Length 21.75 in / 55.25 cm
- Smooth and supple full body skin
- Realistic joint articulation
- Wireless and tetherless¹
- Internal rechargeable battery provides up to 4 hrs. of tetherless operation²
- Programmable bilateral or unilateral arm movement: reduced, and limp

Airway

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

Breathing

- Automatic, spontaneous breathing
- Programmable respiratory rates, patterns, and I:E ratios
- Visible chest rise with PPV
- Unilateral chest rise with mainstem intubation
- Ventilations are measured and logged
- Normal and abnormal lung sounds
- Real CO₂ exhalation (option: S2210.078)

Circulatory

- Comprehensive ECG rhythm library
- ECG monitoring using real devices
- eCPR™ Real-time CPR feedback
- Effective chest compressions generate palpable pulses and ECG activity
- Healthy and abnormal heart sounds
- Virtual pacing and defibrillation
- Visible central cyanosis with programmable intensity
- Fontanelle, brachial, and umbilical pulses
- Measure BP using real BP cuff
- Audible Korotkoff sounds
- Virtual pre- and post-ductal SPO₂
- Supports IV cannulation: hand, umbilical catheterization (UVC/UAC), lower left leg
- IO access and infusion at right tibia

Other

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

Premie HAL® S2209 features

- Gestational age: 30-week preterm neonate
- Weight: 2.9 lb. (1.32 kg)
- Length: 15.71 inches (39.9 cm)
- Smooth and supple full-body skin

- Tetherless and wireless; fully responsive during transport¹
- Internal rechargeable battery²

Airway

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

Breathing

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

Circulation

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

Newborn TORY® S22210 Package Contents

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

Premie HAL® S2209 Package Contents

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

NOELLE® with Newborn TORY® Package

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

NOELLE® with Premie HAL® S2209 Package

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NOELLE®

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Care in Motion™ Mobile

CIM.PK

Mobile Video-Assisted Debriefing system. Package includes: Care in Motion Tablet PC. 3 Battery-powered HD wireless cameras. 3 Adjustable camera grips. Transport case. One-Year Limited Warranty. Extended service plans available. Patented; other patents pending.

Request a quote

Sales / customer service

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Monday - Friday

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About Gaumard

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

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Warranty

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

Technical support

Available 8:00 a.m. to 6:00 p.m. ET

weekdays, or email us at

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Phone: 305.971.3790

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