

# NOELLE & TORY - Obstetrics and neonatal care - UNI

PRODUCT NUMBER: 1516



## DESCRIPTION:

The **NOELLE and Newborn TORY package** is a complete simulation-based obstetric and neonatal care education and training solution for one great price.

This turnkey solution includes a **NOELLE wireless and tetherless childbirth patient simulator**, a **Newborn TORY wireless and tetherless full-term neonate**, two UNI® control tablet PCs, a Gaumard Vitals® patient monitor, Labor & Delivery and Neonatal Care Simulation Learning Experience® Courseware packages, and accessories.

## SKILLS:

- ☑- Leopold Maneuvers skills training
- ☑- Fetal monitoring

### MORE THAN SIMULATORS S.L.

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### CONTACTO

sales@morethansimulators.com  
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- ☒- Breech and vartex delivery skills training
- ☒- Obstetrics emergency: shoulder dystocia and C-section.
- ☒- Epidural placement and needle detection
- ☒- Delivery maneuvers training: McRoberts, Zavanelli, Woods' screw, and more
- ☒- Advanced delivery management techiques training: Pinard's, Mauriceau, Ritgen's, Lovset, etc.
- ☒- Placenta extraction and fragments detection
- ☒- Post-partum hemorrhage control
- ☒- Episiotomy exercises
- ☒- Catheterization training
- ☒- Rectum suppository placement
- ☒- Cardiac, pulmonary and abdominal auscultation exercises
- ☒- Palpation of pulses (synchronized with heart rate)
- ☒- Oxygen saturation monitorization
- ☒- Blood pressure measurement
- ☒- IV training: intravenous, blood draw, intramuscular, subQ, etc.
- ☒- Administration of intravenous drugs/medication
- ☒- Resuscitations skills (CPR)
- ☒- Real equipment monitorization: EKG, capnography, NIBP, TOCO, pulse oximeters, etc.
- ☒- Defibrillation, cardioversion and pacing training
- ☒- Heart rate measurement
- ☒- Detection of respiratory patterns and inspiratory/expiratory ration
- ☒- BVM ventilation
- ☒- Oral and nasal intubation
- ☒- CO2 exhalation measurement (with adapter)
- ☒- Airway management training
- ☒- Difficult airway management (laryngospasm, tongue edema, etc.)
- ☒- Mechanical ventilation skills training
- ☒- Diagnosis of seizures
- ☒- Ophthalmologic exercises and pathology diagnosis

## CASES AND PATHOLOGIES:

### LABOR AND DELIVERY PRE-INSTALLED SCENARIOS:

☒- The new NOELLE Labor & Delivery Simulation Learning Experiences (SLEs) provide you with a library of 9 ready-to-use, evidence-based scenarios designed to help you maximize participant's learning through outcome-focused simulated clinical patient encounters.

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

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☒- Shoulder Dystocia

#### **NEONATAL PRE-INSTALLED SCENARIOS:**

☒- The new TORY® Neonatal Care Simulation Learning Experiences (SLEs) provide you with a library of ready-to-use, evidence-based scenarios designed to help you maximize participant's learning through outcome-focused simulated clinical patient encounters.

- ☒- Acute Respiratory Distress Syndrome
- ☒- Bronchopulmonary Dysplasia with Pulmonary Hypertension
- ☒- Drug-Exposed Infant/Neonatal Abstinence Syndrome
- ☒- Early-Onset Sepsis
- ☒- Late-Onset Sepsis
- ☒- Nuchal Cord
- ☒- Pneumonia
- ☒- Shoulder Dystocia

## **CHARACTERISTICS:**

#### **NOELLE FEATURES:**

##### **LABOR AND DELIVERY:**

- ☒- NOELLE® Fetus-Newborn wireless link capability
- ☒- Automatic and fully programmable birthing mechanism simulates descent and cardinal movements
- ☒- Precise labor scenario repeatability for competency-based training and assessment
- ☒- Programmable normal, breech, shoulder dystocia, instrument-assisted delivery, and C- section
- ☒- Supports Leopold's Maneuvers and external cephalic version
- ☒- Epidural placement and needle detection; palpable anatomical landmarks and skin layers
- ☒- Force sensors monitor traction applied to the fetus in real-time
- ☒- 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
- ☒- Supports McRoberts maneuvers
- ☒- Supports Woods' screw, arm sweeps, and Lovset
- ☒- Postpartum: palpable fundus with programmable uterine contractions
- ☒- Uterine bleeding: manage uterine hemorrhage using medications or a balloon tamponade
- ☒- Episiotomy repair inserts simulate human tissue that can be sutured closed repeatedly

#### **NEUROLOGICAL:**

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- ☒ Programmable blinking, dilation, and eye response to light
- ☒ Programmable duration and intensity of convulsions
- ☒ Prerecorded responses
- ☒ Wireless streaming voice: be the voice of Noelle and listen to the participants' responses via a wireless headset

#### **AIRWAY MANAGEMENT:**

- ☒ 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

#### **BREATHING:**

- ☒ Automatic chest rise is synchronized with respiratory patterns
- ☒ Normal and abnormal breath sounds
- ☒ Independent left or right lung sounds synchronized with breathing
- ☒ Ventilation may be assisted using BVM, ETT, or LMA
- ☒ Ventilations are measured and logged
- ☒ Detection and logging of ventilations and compressions

#### **CARDIAC:**

- ☒ eCPR® – Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation. The smart trainer features vocal cues and outputs performance reports.
- ☒ Chest compressions generate palpable blood pressure waveform and ECG artifacts
- ☒ Normal and abnormal heart sounds
- ☒ Heart sounds synchronized with ECG
- ☒ ECGs are generated in real-time with physiologic variations

#### **CIRCULATION:**

- ☒ Measure blood pressure by palpation or auscultation using real instruments
- ☒ Korotkoff sounds audible between systolic and diastolic pressures
- ☒ Oxygen saturation detected using real monitors
- ☒ Bilateral carotid, radial, and brachial pulses synchronized with ECG
- ☒ Pulse sites synchronized with BP and heart rate
- ☒ Bilateral IV arms with fill/drain sites
- ☒ Optional drug recognition system
- ☒ SubQ and IM injection sites
- ☒ Chest compressions are measured and logged
- ☒ ECG monitoring using real devices

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- ☒- Defibrillate, cardiovert, and pace using real devices

#### NEWBORN TORY FEATURES:

##### GENERAL:

- ☒- Age: 40-week term newborn
- ☒- Weight: 6 lbs. / 2.7 kg
- ☒- Length: 20.75 in / 52.7 cm
- ☒- Smooth and supple full body skin
- ☒- Seizures/Convulsions
- ☒- 1-month neonate navel insert
- ☒- Programmable muscle tone: bilateral or unilateral arm movement, reduced, and limp
- ☒- Temperature sensor placement detection

##### AIRWAY MANAGEMENT:

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

##### BREATHING:

- ☒- Spontaneous breathing
- ☒- Real end-tidal CO<sub>2</sub> capability
- ☒- Variable respiratory rates and inspiratory/expiratory ratios
- ☒- Visible chest rise with bag valve mask ventilation
- ☒- Unilateral chest rise with right mainstem intubation
- ☒- Lung ventilations are measured and logged
- ☒- Programmable unilateral chest rise and fall
- ☒- Unilateral lung sounds synchronized with respiratory rate

##### 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 CPR activity
- ☒- Healthy and abnormal heart sounds
- ☒- Virtual pacing and defibrillation

##### CIRCULATORY:

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- ☒ Visible central cyanosis with programmable intensity
- ☒ Fontanelle, brachial, and umbilical pulses
- ☒ Blood pressure-dependent pulses
- ☒ Measure blood pressure using real modified BP cuff and 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
- ☒ Umbilical cutdown
- ☒ Intraosseous access and infusion at right tibia
- ☒ Bilateral anterolateral thigh intramuscular injection sites

#### **DIGESTIVE:**

- ☒ Interchangeable female and male genitalia
- ☒ Urinary catheterization with urine output
- ☒ Selectable bowel sounds

### **INCLUDE:**

- ☒ 1 NOELLE simulator
- ☒ 1 NEWBORN TORY simulator
- ☒ 2 UNI Tablet pc (simulations control)
- ☒ 9 Pre-installed labor and delivery simulation scenarios
- ☒ 8 Pre-installed neonatal simulation scenarios
- ☒ 1 Virtual Patient Monitor with Gaumard Vitals
- ☒ 1 RF communications module
- ☒ 1 Palpation abdomen
- ☒ 1 C-section abdomen
- ☒ 2 Umbilical cords
- ☒ 1 Placenta
- ☒ 1 Epidural insert
- ☒ 1 Episiotomy trainer insert
- ☒ 1 Artificial blood concentrate
- ☒ 1 Fluid filling kit
- ☒ 1 Mineral oil lubricant
- ☒ 1 Power Supply adapter
- ☒ 1 Soft carrying case

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## ADDITIONAL MODULES:

### **GAUMARD VITALS PATIENT MONITOR (included):**

- 0- Touchscreen patient monitor preloaded with Gaumard Vitals
- 0- Programmable uterine activity
- 0- Control contraction frequency, duration, intensity, resting tone, and decels
- 0- Program fetal heart rate and baseline variability
- 0- Control episodic, periodic, and variable changes
- 0- Generate FHR patterns at any time
- 0- Virtually monitor FHR via External Fetal Monitoring or the Fetal Spinal Electrode Mode
- 0- Review up to 2 hours of recorded fetal tracings
- 0- Save/print fetal tracings for debriefing
- 0- Interactive virtual patient monitor displays vital signs in real-time
- 0- Customizable layout mimics real patient monitors
- 0- Display simulated ultrasounds, CT scans, lab results, x-rays