



## SUPER TORY<sup>®</sup> S2220

Advanced Newborn Patient Simulator

- Active robotics: programmable movement of the limbs, mouth, and eyes
- Dynamic lung compliance with true ventilator support
- Supports real patient monitors and sensors
- Multiple vascular access sites for infusion and sampling
- Wireless and tetherless; up to 8 hrs. of battery life
- Includes Neonatal Care Simulation Learning Experiences<sup>™</sup> courseware





# Meet SUPER TORY®

The world's most advanced neonatal patient simulator

## SUPER TORY® S2220 | Advanced Newborn Patient Simulator

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

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

- Full-term newborn: 8 lbs. 21 in.
- Wireless and tetherless: up to 8 hours<sup>1,2</sup>
- Smooth and supple full-body skin
- Crying and grunting
- Programmable movement
  - » Blinking rate, eyes opened/closed
  - » Mouth: gasping and clenching
  - » Arm, leg, and wrist flexion and extension
  - » Seizures: single limb, unilateral, or full-body movement
- Dynamic lung compliance
- Heart and lung sounds and palpable pulses
- Includes 10 Simulation Learning Experiences™ scenarios



UNI® Interface powered by Microsoft® Surface



Cyanosis, jaundice, pink, and pallor



Pulses: fontanel, brachial, umbilical, and femoral

Neonatal resuscitation and stabilization



Real mechanical ventilator and patient monitor support



Internal and external critical care transport





## True-to-life neonatal resuscitation and stabilization scenarios.

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

- Anatomically accurate oral cavity and airway
- Intubation depth and neck hyperextension/flexion detection
- Visible chest rise following guideline-recommended flow, PIP, and PEEP values
- SpO<sub>2</sub> and EtCO<sub>2</sub> monitoring using real sensors
- eCPR™ Real-time quality feedback and reporting
  - » Compression depth, rate, and interruption duration
  - » Ventilation rate and duration
  - » Smart CPR voice coach
  - » Performance report summary
- Defibrillate, cardiovert, and pace using real devices and energy
- Multiple vascular access sites



Anatomically accurate airway



Hand and scalp IV, tibial IO



Continuous UAC/UVC infusion



Pre- and post-ductal SpO<sub>2</sub>

## Train handoffs and transport in real environments.

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

- Wireless control!
- Internal rechargeable battery provides up to 8 hrs. of tetherless operation<sup>2</sup>



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

The breakthrough respiratory system design in SUPER TORY accurately responds to mechanical ventilation support like a real newborn, while making it possible to adjust pulmonary function on the fly. Simply tap the UNI® controls to decrease lung compliance and see the change from uniform chest rise, visible with as little as 15 cmH<sub>2</sub>O, to the high recoil associated with stiff lungs. These advanced features allow SUPER TORY to simulate the course of respiratory disease through treatment, weaning, and rehabilitation with the highest degree of physiological accuracy.

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



Sunken, bulging, and normal



Capillary refill time testing



Programmable retractions, "see-saw" breathing



Bilateral pneumothorax sites

## Train using real patient monitors and sensors.

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

- ECG monitoring
- ECG-derived respiration monitoring
- Pre- and post-ductal SpO<sub>2</sub> monitoring
- Oscillometric NIBP
- Live pacing and defibrillation
- Capnography



## 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"





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

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



**Preconfigured and ready**

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

**Optimized for on-the-fly controls**

The UNI touchscreen interface lets you quickly and easily adjust vital sign parameters with just a few taps.

**3D patient visualization monitor**

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

**Automatic operating mode**

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

**Scenario designer**

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

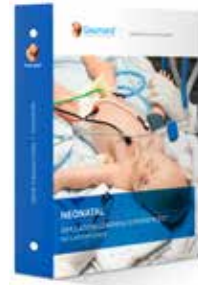
**eCPR™**

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

**Lab report designer**

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

**Includes SUPER TORY Simulation Learning Experiences.**



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

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

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

**Questionnaire form designer**

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

**Time-stamped event recording and reporting**

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

**Provider actions tracker**

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

**UNI control view replay**

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

**No annual software license fee**

Gaumard is committed to providing the best value and keeping your program's operating costs down year after year.

**Free software updates**

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

**Free webinar training and technical support**

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

**General**

- Age: Full-term newborn
- Weight: 8 lbs., Length: 21 in.
- Tetherless and wireless, fully responsive during transport<sup>1</sup>
- Internal rechargeable battery provides up to 8 hrs. of tetherless operation<sup>2</sup>
- Smooth and supple full-body skin with seamless trunk and limb joints
- Programmable movements: blinking, mouth opening and closing, arm and leg flexion and extension
- Realistic joint articulation: neck, shoulder, elbow, hip, and knee
- Forearm pronation and supination
- Lifelike umbilicus and post cord detachment navel
- Palpable bony landmarks
- Near-silent operation
- NOELLE® Fetus-Newborn wireless link capability
- Tablet PC preloaded with UNI® included
- Mouth movement
- Blinking eyes
- Seizures/convulsions
- Programmable muscle tone: active, reduced, and limp

**Airway**

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

**Breathing**

- Spontaneous breathing
- Variable respiratory rates and inspiratory/expiratory ratios
- Programmable unilateral chest rise and fall
- Lung sounds synchronized with respiratory rate
- Programmable retractions, "see-saw" breathing
- Mechanical ventilation support
  - » A/C, SIMV, CPAP, PCV, PSV, NIPPV
  - » Supports PEEP (up to 20 cmH<sub>2</sub>O)
  - » Dynamic airway and lung controls
  - » Variable lung compliance
  - » Bilateral bronchi resistance
- Programmable respiratory efforts for weaning/liberation
- Unilateral chest rise with right mainstem intubation (Automatic detection and logging)
- Real-time ventilation feedback
- Bilateral, midaxillary pneumothorax

sites support needle decompression and chest tube insertion

- Pneumothorax sites feature palpable bony landmarks, realistic skin for cutting and suturing, bleeding, tactile pleural pop, and fluid drain
- Visible chest rise during bag-valve-mask ventilation
- Supports EtCO<sub>2</sub> 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)
  - » Time to CPR, compression depth/rate, compression, interruptions, ventilation rate, smart CPR voice coach
- Defibrillate, cardiovert, and pace using real devices and energy
- Effective chest compressions generate palpable femoral pulses and ECG activity
- Healthy and abnormal heart sounds
- Supports virtual pacing and defibrillation

**Circulatory**

- Visible cyanosis, jaundice, paleness, and redness with variable intensities
- Supports manual capillary refill time assessment on the left foot (Automatic detection and logging)
- Programmable fontanel: depressed, normal, and bulging
- Palpable pulses: brachial, femoral, and umbilical
- Pulse palpation event detection and logging
- Blood pressure-dependent pulses
- Supports blood pressure monitoring using a real NIBP cuff
- Audible Korotkoff sounds
- Pre-ductal and post-ductal SpO<sub>2</sub> monitoring using real devices

**Vascular Access**

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

**Gastrointestinal**

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

**SUPER TORY® S2220**

S2220.PK ● ● ●

**Package contents**

SUPER TORY®, tablet PC preloaded with UNI® license, automatic mode license, Neonatal SLE™ courseware package, RF module, battery charger, defibrillation adapter, replacement IV lower arm, scalp IV site inserts, IO site inserts, pneumothorax inserts, umbilical cords, post cord detachment navel, CO<sub>2</sub> adapter, carrying case, user manual, and One-Year Limited Warranty (extended warranty plans available). Patented; other patents pending

**Bedside virtual patient monitor**

S2220.001.R2



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

**Mobile virtual patient monitor**

S2220.002

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

**CARE IN MOTION™ MOBILE Video-assisted debriefing system**

CIM.PK

Care In Motion Tablet PC, 3 Battery-powered HD wireless cameras, 3 adjustable camera grips, transport case, and One-Year Limited Warranty (extended warranty plans available).



# SUPER TORY® S2220 | Advanced Newborn Patient Simulator

## Request a quote

**Sales / customer service**  
sales@gaumard.com

**Website**  
www.gaumard.com

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

**Worldwide**  
305.971.3790

## About Gaumard®

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