

Includes Newborn HAL®

- Control NOELLE® and Newborn HAL® at distances up to 100 meters
- Each smoothly transitions between physiologic states in response to commands from a wireless PC
- Airway, breathing and circulation
- Vertex, breech and C-section deliveries
- Shoulder dystocia and PPH
- Dynamic perinatal monitor
- Maternal and neonatal vital signs monitors
- Control NOELLE® between rooms and floors of buildings
- NOELLE® smoothly transitions between physiologic states in response to commands from a wireless PC
- Use our scenarios or quickly generate your own
- Blood pressure and oxygen saturation can be taken bilaterally using REAL equipment
- Multiple heart and respiratory sounds
- Pulses are continuous and synchronized with ECG
- Speech and convulsions
- Caregiver actions time stamped and logged
- Evaluate actions with a single click and insert notes in a real time performance log

NOELLE®'s Newborn HAL® features

- Breathing and pulses
- Color and vital signs that are responsive to hypoxic events and interventions
- Physiologic modeling and trending

Normal Vaginal & Instrumented Delivery

- Fetus descends and rotates internally as it moves down the birth canal
- Extensible birth canal with catheterization and programmable hemorrhage
- Fetal external rotation aligns shoulders with birth canal
- New fetal head skin for use with most vacuum devices and forceps

Shoulder Dystocia

- Use delivery Profile Control to specify exactly when the “turtle sign” will occur and how long you allow students to deal with this dilemma
- Relieve dystocia using suprapubic pressure, McRobert’s maneuver, posterior arm sweep, fetal rotation or “elbows/knees” position

Intrapartum Modeling or Trending

- Use our physiologic model that controls skin color and vital signs
- Trend color and vital signs as you wish
- New “branching” scenarios

Breech Delivery

- Practice vaginal breech deliveries
- Learn to free the legs using Pinard maneuver
- Once delivered the neonate may require resuscitation

- Change maternal vital signs or fetal heart tones during the scenario

C-Section

- Special abdominal cover has tissue layers students can dissect
- Practice delivery of either vertex or breech presentation
- Change vital signs and fetal heart tones with this or any other scenario “on the fly”

Episiotomy Repair

- Deliveries may require an episiotomy to prevent an uncontrolled tear of the vulva
- These reusable repair modules also feature tears of the labia and periurethra

Postpartum Hemorrhage and Fundal Massage

- This postpartum uterus bleeds through cervical os and cervix
- The uterus can be massaged and it shrinks. Instructor then reduces bleeding
- Programmable PPH with flow from refillable internal tank

Airway

- Oral and nasal intubation
- Use an ET tube or LMA
- Uni or bilateral chest rise
- Multiple upper airway sounds

Breathing

- Control rate/depth of respiration
- Ventilation is measured and logged
- Independent left and right lung sounds
- Breath sounds

Circulation and color change

- Multiple heart sounds, rates, intensities
- Chest compressions measured/logged
- Blood pressure and IV
- Color, vital signs, and motion respond to hypoxic events and interventions
- Umbilical, brachial, and scalp pulses operate continuously
- Pulse strengths vary with blood pressure and pulses are synchronized with ECG

More Newborn Features

- Crying and convulsions
- View ECGs with physiologic variations generated in real-time
- Conductive skin regions
- Apply real electrodes
- Vigorous cry synchronized with breathing
- Programmable arm motion
- Bowel sounds
- Great for APGAR scoring