

Treating compromised newborns demands the easiest to use, highest quality training solution



## SimNewB

**With realistic newborn traits and lifelike clinical feedback, SimNewB is ideal for training for the specific needs of neonates.**

SimNewB accurately represents a full term, 50th percentile newborn female with state-of-the-art simulator features. Available in basic and advanced versions, SimNewB was designed to be easily integrated into all neonatal clinical training curriculums.

Features include:

- Realistic Airway and Breathing Functionality.
- An umbilicus with a life-like pulse that can be assessed, cut and catheterised for IV access.
- I/O access in both legs.
- Simulation Support Materials;  
20 Neonatal Resuscitation Scenarios  
(including 10 developed in Australia)

Introducing  
Laerdal's first  
Neonatal Simulator



[www.laerdal.com.au](http://www.laerdal.com.au)  
[www.laerdal.co.nz](http://www.laerdal.co.nz)



**Laerdal**  
helping save lives

# SimNewB Product Features

## Airway Features:

- Anatomically Accurate, Realistic Airway
- ET Tube Insertion
- LMA Insertion
- Sellick Maneuver
- Positive-Pressure Ventilation
- Right Mainstem Intubation
- Suctioning
- Variable Lung Resistance
- Gastric Tube Insertion

## Breathing Features:

- Spontaneous breathing, with variable rate
- Bilateral and unilateral chest rise and fall with mechanical ventilation
- CO<sub>2</sub> exhalation
- Normal and abnormal breath sounds
- Oxygen saturation (Advanced Version)

## Cardiac:

- Extensive ECG Library with rates from 10 – 300 bpm
- ECG monitoring via 3-lead monitor

## Vascular Access:

- Patent, cuttable umbilicus with venous and arterial access for bolus or infusion
- Simulated blood flashback upon cannulation

## Circulation:

- Heart Sounds
- Umbilical and Brachial Pulse
- Blood Pressure measured manually by auscultation of Korotkoff sounds

## Remote Control:

- Easy-to-use remote control with icons
- Preset Patient levels on remote map to NRP Simulation Support Materials
- Can be operated wirelessly

## NRP Simulation Support Materials

- Materials mapped directly to the NRP course
- Instructor support for consistent delivery of course content

## Central Cyanosis Presentation

## Intraosseous Access

## Breathing Complications:

- Pneumothorax
  - Unilateral chest movement with mechanical ventilation
  - Unilateral breath sounds
  - Unilateral needle thoracostomy, mid-axillary

## Sounds:

- Vocal: Grunt breathing, crying, hiccups and others
- Lung: Normal, stridor, pneumonia and others
- Heart: Normal, diastolic murmur, systolic murmur and others

## Other Features:

- Interchangeable pupils with normal, blown and constricted pupils
- Movement in all four limbs: Limp, Tone, Spontaneous Motion and Seizure

## 225-05015 SimNewB

Product Includes: PC Enabled Manikin, Simulation Support Materials including 10 cases from the American Academy of Pediatrics and 10 cases made to suit Australian and New Zealand protocol and curricula, SimNewB Control Unit with Remote Control, Compressor, AirCO<sub>2</sub> Hose, Operating Software and Directions for Use.

## 225-09033 SimNewB Advanced Upgrade Kit

Includes: Laptop PC, Touch Screen Monitor and USB Web-camera.

## Optional Accessories:

- Advanced Video System (AVS)
- Transportation Cases
- Portability Kit
- Air Regulator

## Educational Services:

- SimNewB Basic In-service
- Advanced SimNewB Scenario Programming

## Technical Services:

- Preventative Maintenance
- Extended Warranty

## ADVANCED ONLY

### Software Features:

- Easy-to-operate software based on well proven SimMan/SimBaby software
- Manual control over all parameters
- Scenarios, with Trends and Handlers, can be preprogrammed by the user

### Debriefing Viewer:

- Web-camera recording
- Review event log together with synchronised recording of the patient monitor and in-room video
- Stand alone debrief viewer for offsite review

### Simulated Patient Monitor:

- Highly configurable
- Simulate several parameters including:
  - Heart Rate - ECG - SPO<sub>2</sub> - NIBP - ETCO<sub>2</sub>
- Respiratory Rate
- Multi-level alarm
- Touch Screen Operation



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