

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



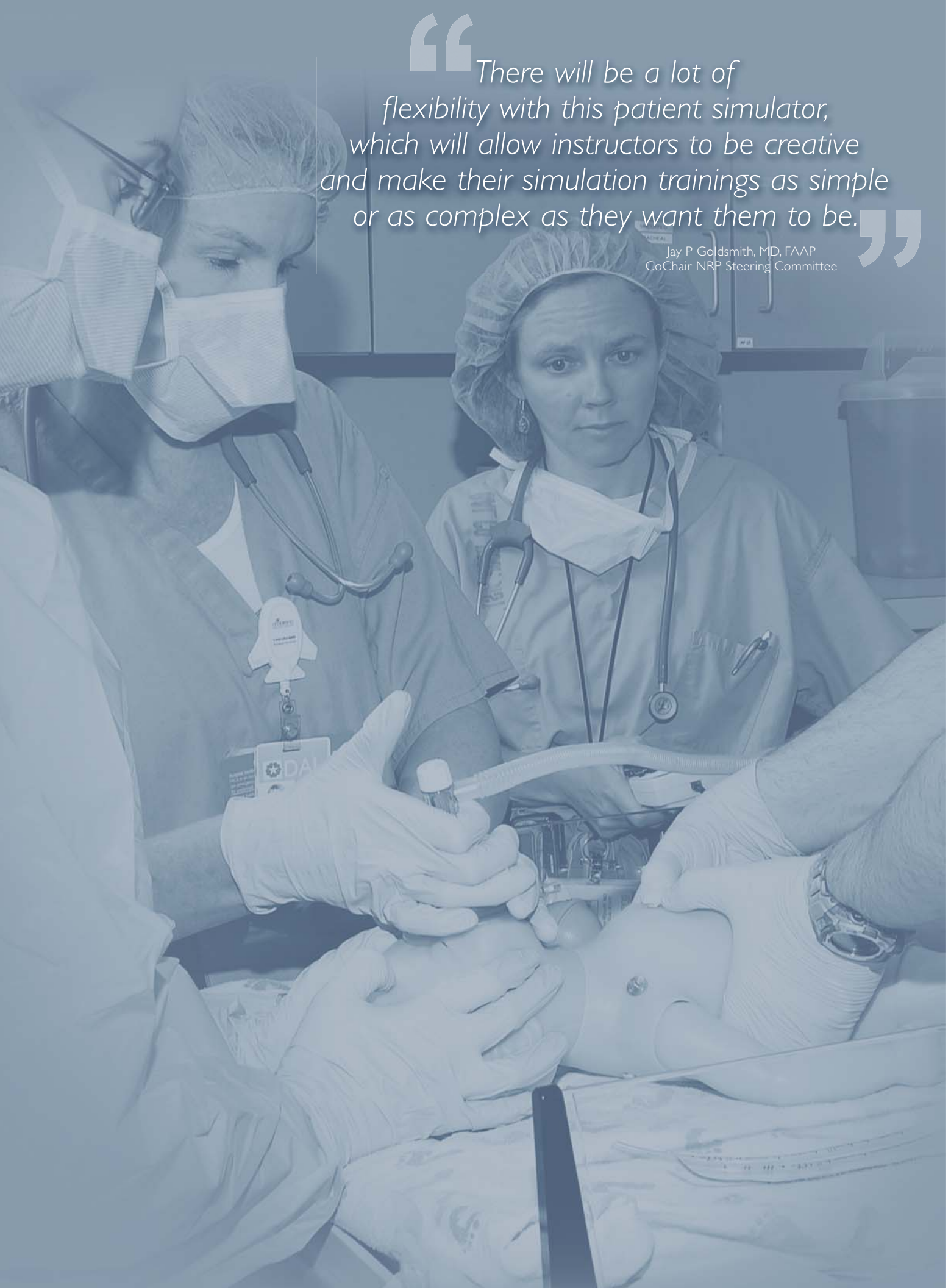
SimNewB™

Introducing the first Neonatal Simulator developed collaboratively with the AAP

American Academy of Pediatrics
DEDICATED TO THE HEALTH OF ALL CHILDREN™



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There will be a lot of flexibility with this patient simulator, which will allow instructors to be creative and make their simulation trainings as simple or as complex as they want them to be.

Jay P. Goldsmith, MD, FAAP
CoChair NRP Steering Committee

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Laerdal and the AAP

Laerdal Medical and the American Academy of Pediatrics recently entered into a strategic alliance that will allow the Neonatal Resuscitation Program (NRP) to expand its reach and increase the impact of hands-on neonatal resuscitation training throughout the United States and overseas. The partnership will allow for new opportunities to integrate the latest training technologies into the NRP curriculum, maximizing the learning experience in realistic settings.

One outcome of this relationship is the development of the SimNewB™ Neonatal Simulator.

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SimNewB™ is an interactive simulator, designed by Laerdal with the American Academy of Pediatrics to meet the training requirements of the NRP course. With realistic newborn traits and lifelike clinical feedback, SimNewB is ideal for training for the specific needs of neonates.

Scalable Training Solution:

Available in basic and advanced versions to enable instructors to vary simulations from the delivery room to the NICU.

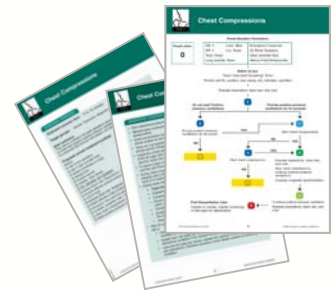


Ease of Use:

Designed to be easily integrated into all neonatal clinical training curriculums. An innovative user interface and scenario design allow instructors to control the Simulator's responses throughout a training session with the push of a button on the remote handheld controller. Features 6 preset patient levels ranging from a vigorous to a compromised newborn.

Simulation Support Materials:

SimNewB comes with NRP Simulation Support Materials that map directly to the NRP course materials, facilitating delivery of consistent simulations, reinforcing the NRP curriculum and enabling instructors to easily integrate simulation into their NRP and other neonatal training programs.



Realistic Anatomy:

The simulator accurately represents a full term, 50th percentile newborn female. Measuring 21 inches and weighing 7 lbs., SimNewB can present as a limp, cyanotic newborn with no vital signs, or as a moving, crying, vigorous newborn.

Patent Umbilicus:

An umbilicus with a life-like pulse can be assessed, cut, and can be catheterized for IV access.





Intraosseous Access:

SimNewB features I/O access in both legs.

Realistic Airway and Breathing Functionality:

- The airway was designed to allow for training in all aspects of newborn airway management, including the use of Positive-Pressure Airway devices, and the placement of ET tubes and LMAs.
- Lung compliance: Instructors can alter the simulator's lung compliance to challenge providers' skills in detecting and treating lung compliance changes.
- Realistic chest rise: The chest rise on the simulator can be adapted to be absent or normal, with breathing rates up to 100 breaths per minute.
- Needle decompression: The torso of SimNewB includes functionality to relieve a pneumothorax via needle decompression.



SimNewB™

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
- CO₂ 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

Circulation:

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

Vascular Access:

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

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

220-00001 SimNewB Basic (US Version):

Product Includes: Manikin, NRP Simulation Support Materials, SimNewB Control Unit with Remote Control, Compressor, AirCO₂ Hose, and Directions for Use.

225-00001 SimNewB Advanced (US Version):

Product Includes: PC Enabled Manikin, NRP Simulation Support Materials, SimNewB Control Unit with Remote Control, Compressor; Laptop PC, Touch Screen Monitor; USB Web-camera, AirCO₂ Hose, Operating Software, Directions for Use, and Educational Support Course 100.

Optional Accessories:

- Congenital Anomalies Modules
- AVS Video System
- Transportation Cases
- Portability Kit
- Air Regulator
- Extended Warranty
- ValuePlus Service Plan
- Installation and Setup

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 synchronized 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 - SPO₂ - NIBP - ETCO₂
- Respiratory Rate
- Multi-level alarm
- Touch Screen Operation



Contact your local Laerdal Representative for optimal SimNewB configuration or additional information



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