



Laerdal[®]
helping save lives

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™



Improving Neonatal Outcomes



Operation choices

SimNewB[®]

SimNewB[®] is an interactive newborn simulator, designed by Laerdal with the American Academy of Pediatrics to meet the training requirements of neonatal emergency medicine and resuscitation courses. With realistic newborn traits and lifelike clinical feedback, SimNewB is ideal for training for specific needs of neonates.

SimNewB can be operated with the SimPad System or LLEAP software, making simulation training simple and efficient.



SimNewB®

AIRWAY SKILLS/FEATURES

- Anatomically accurate, realistic airway
- ET tube insertion
- LMA insertion
- Sellick maneuver
- Positive-pressure ventilation
- Right mainstem intubation
- Simulated suctioning
- Variable lung resistance
- Gastric tube insertion
- Bilateral and unilateral chest rise and fall with mechanical ventilation
- CO2 exhalation
- Normal and abnormal breath sounds
- Controllable open/closed airway, automatically or manually controlled
- Bag-mask ventilation
- Unilateral chest movement with mechanical ventilation
- Unilateral breath sounds
- Unilateral needle thoracentesis, mid-axillary

CIRCULATION

- Simulator shall allow the practice of the following skills: cannulation, phlebotomy, drug administration and infusion
- An extensive ECG library shall be present with rates ranging from 0 to 300
- Blood pressure shall be measurable automatically or manually by auscultation of Korotkoff sound (right arm)
- Umbilical and Brachial pulses shall be synchronized with ECG
- Manikin shall allow umbilical cord to be assessed, cut and catheterized
- Umbilical catheterization with blood return shall be possible
- Pulse can be turned "on" and "off"

- Brachial pulse palpation shall be detected and logged via laptop computer
- IV access shall be available through the umbilical cord
- IO access shall be possible via tibias (both legs)
- Circumoral Cyanosis shall be displayed.

CARDIAC

- Heart sounds such as normal, systolic murmur, Aortic Stenosis, Austin Flint Murmur, Stills Murmur, Atrial Septal Defect (ASD), Ventricular Septal Defect (VSD) and Pulmonary Stenosis shall be present
- Realistic depth of CPR compressions shall be possible
- Detection of CPR compressions shall be displayed on the data log

ADDITIONAL FEATURES

- Eyes shall include interchangeable pupils, representing normal, constricted and dilated pupils
- The manikin shall display movement in all four limbs: limp, tone, spontaneous motion and seizure
- Optional congenital anomaly kit: polycystic kidney inserts, omphalocele, spina bifida, cleft lip, forceps laceration, and cystic hygroma
- Vocal sounds to include: content, hiccups, grunting, strong cry, weak cry, cough and scream
- Meconium module for suction removal

LLEAP FUNCTION

- Instructor computer with LLEAP software (sold separately)
- Control multiple manikins from one interface
- Use Manual Mode to run "on-the-fly" for total control over all parameters
- Utilize Automatic Mode with pre-programmed scenarios for a simple and standardized way to run a simulation (pre-programmed scenarios, self-authored content)

- Simulation controls; fast forward, pause, rewind, save/restore
- Profile editor
- Future prediction and patient outcome display
- Integrated video debriefing
- Time stamped activities, vital signs, and instructor comments are captured in the event log

SIMPAD® SYSTEM FUNCTION

- Handheld, intuitive touchscreen remote for easy 'pick up and play' experience
- Mobile - teach anywhere
- Operate on-the-fly or utilize scenarios and Themes for consistent simulation training
- Time stamped activities, vital signs, and instructor comments are captured in the event log
- The SimPad log files can be viewed on the device or on a PC using Session Viewer for post-simulation reflection and debriefing
- Upload self-authored scenarios and Themes, or download pre-programmed scenarios directly from SimStore

PATIENT MONITOR (OPTIONAL)

- Touchscreen simulated patient monitor provides concise clinical feedback for physiological parameters.
- The monitor's color screen is configurable and provides multiple simulated parameters, each presenting multi-level alarms.
- Simulated parameters include HR, ECG, SpO2, BP, RR, Temperature, and etCO2.
- In addition to the parameters above, LLEAP Patient Monitor provides:
 - Advanced patient parameters: ABP, ICP, TOF and many more
 - Multi-media: labs, x-ray display, 12 lead ECG, custom image display, custom video display

ORDERING INFORMATION

226-05050	SimNewB Manikin Includes: Manikin, BP Cuff, Consumables, Clothing, Directions for Use	400-10201	Laptop Instructor – Patient Monitor
200-30001	SimPad System Includes: SimPad hand held Remote Control, SimPad Link Box, AC Adapter, Battery, Headset & Microphone, Wrist Strap, Manikin Strap, Ethernet Cable, SimPad Sleeve, USB Cable & DFU	400-09201	Tablet PC Instructor – Patient Monitor
200-30250	Link Box SimPad	400-09501	Rugged Tablet Instructor – Patient Monitor (includes keyboard)
		400-29301	All in One Panel PC Instructor – Patient Monitor
		400-01050	LLEAP Software License
		400-97001	Network Switch
		210-01750	Compressor

OPTIONAL ACCESSORIES

220-03550	Congenital Anomaly Module
212-29650	Headset +Mic with USB
400-20050	Keyboard +Mouse USB
212-17050	SpO2 probe with USB Connector
381850	Portability Kit
220-00150	Umbilical Cords (set of 4)

Operation

SimNewB can be operated by the SimPad System or LLEAP PC and can utilize a simulated patient monitor:



SimCenter

Visit www.laerdal.com/simcenter to learn how to optimize your simulation training using SimCenter™ and SimNewB®



SimStore™

Access to validated, standardized content from industry experts

SimManager™

A suite of online tools that allows you to fully optimize your entire simulation center operation

SimView™

An integrated debriefing solution giving you the ability to study simulation events more closely

Services

Laerdal offers comprehensive Educational Services to support your curriculum, and Technical Services to meet your product servicing needs. Whether you are setting up a one-room simulation site or a multi-bed simulation center, Laerdal can help.

Visit Laerdal.com for a complete listing of parts, accessories, and consumables



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