



Improving pediatric outcomes

SimJunior[®]

SimJunior[®] is an interactive pediatric simulator, designed by Laerdal with the American Academy of Pediatrics to meet the education and training needs of healthcare providers.

Used with the SimPad[®] System or LLEAP software, SimJunior provides learners with immediate feedback and detailed objective evaluation of performance.



Operation choices



AIRWAY FEATURES

The SimJunior airway is anatomically modeled as far as the trachea.

- Realistic airway with landmarks
- Oral and nasal intubation
- LMA or ET insertion
- Tongue edema
- NG tube (insertion only)
- Cricoid cartilage
- Head tilt & jaw thrust (no sensor)
- Left and right lungs can be either closed or open to allow ventilations

BREATHING FEATURES

- Spontaneous breathing with observable chest rise
- Variable respiratory rates
- Multiple upper airway sounds synchronized with breathing
- Detect and quantify volume of mechanical ventilations (including no ventilations)
- Bag Valve Mask capable
- Oxygen saturation and waveform
- Breathing complications
- Lungs can be closed or open to allow ventilations

CARDIAC FEATURES

- Defibrillation and cardioversion
- Pacing
- Extensive ECG library
- Multiple heart sounds synchronized with ECG
- ECG rhythm monitoring (3 leads)
- 12 lead ECG display (Optional Patient Monitor)

VASCULAR ACCESS

- IV access (right arm and hand)
- Intraosseous access (right tibia)

CIRCULATION FEATURES

- Blood pressure measured manually by auscultation of Korotkoff sounds
- Bilateral carotid and unilateral brachial and radial (left side) pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation detected and logged
- CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts
- Detection and logging of a series of compressions in the data log
- Compliant with 2010 Guidelines

ADDITIONAL FEATURES

- Interchangeable pupils - normal, dilated, and constricted
- Sounds: Heart, lung, bowel, and patient voice (pre-recorded sounds and wireless microphone)

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: ABR, ICP, TOF and many more
 - Multi-media: labs, x-ray display, 12 lead ECG, custom image display, custom video display

ORDERING INFORMATION

232-05050 SimJunior Simulator
Includes: Manikin, Blood Pressure Cuff, Set of Consumables, Carry Case, Directions for Use



Instructor Computer and Patient Monitor Options

- 400-10201 Laptop Instructor - Patient Monitor
- 400-09201 Tablet - PC Instructor -Patient Monitor
- 400-09501 Rugged-Tablet Instructor - Patient Monitor
- 400-29301 All InOne Panel PC Instructor - Patient Monitor
- 400-97001 Network Switch

Optional Accessories

- 232-05350 Hard-sided Transportation Case for Manikin
- 375-70150 IV Skin/Vein Set
- 231-00101 Replacement IO Leg
- 277-00001 Pediatric Trauma Modules

200-30001 SimPad System
Includes: SimPad, Link Box, 2 AC Power Supplies, Rechargeable Lithium-ion Battery, Wrist Strap, Manikin Strap, Sleeve, USB cable, Ethernet cable, Headset/Microphone and Directions for Use

400-01050 LLEAP Software License

Operation

SimJunior® is operated by the SimPad® System or LLEAP instructor computer and can utilize a simulated patient monitor.



SimCenter

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



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™

A 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/us/SimJunior for ordering information and a complete list of product accessories