



Improving pediatric outcomes

## SimJunior<sup>®</sup>

SimJunior<sup>®</sup> 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<sup>®</sup> 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



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

## 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

## 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](http://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](http://Laerdal.com/us/SimJunior) for ordering information and a complete list of product accessories