

Features

Airways

Realistic airways
Supraglottic airway device support
Head and jaw mobility
Orotracheal and nasotracheal intubation
Laryngeal mask airway insertion
Intubation sensor
Pulmonary aspiration
Cricoid pressure
Positive pressure ventilation
Dynamic airway resistance
Neck hyperextension
Airways obstruction
Esophageal Intubation
Feeding tube insertion
BVM
Cyanosis and acrocyanosis
Chest rise and fall
Bilateral lung resistance
Tracheotomy

Breathing

Spontaneous breathing
Respiratory rate is synchronized with vital parameters on the bedside monitor
Programmable respiratory patterns
Mechanical ventilation (A/C, SIMV, CPAP, PCV, PSV, NIPPV)
PEEP (up to 20cm H2O)
Airways synced to the respiratory rate
Variable compliance
Variable bronchi resistance
Needle decompression with realistic feedback
Real sensors for EtCO2 (Optional)

Auscultation

High-fidelity heart, lung, and bowel sounds
Korotkof sounds auscultation while monitoring blood pressure
Programmable bilateral chest rise and fall, synced with breathing

Neurology

Convulsions
Programmable blinking
Programmable pupils

Vascular access

intravenous injections with automatic drugs recognition (preinstalled catheter)
intraosseous access (tibia, bilateral)

Blood circulation

Rich library of ECG rhythms
HR0-320
Real ECG electrodes
Anatomically accurate landmarks for chest compression performance point finding
Chest compression
Defibrillation, cardioversion and cardiac pacing using real devices
Correct paddle placement
Defibrillation in manual and automatic modes
Successful compressions are registered and affect HR and ECG
Training defibrillation, cardioversion and cardiac pacing support
Cyanosis
Variable pulse strength with activity log

CPR

Realistic chest compressions
Automatic activity log, displaying all user actions
Depth, frequency, hands placement assessment and log
Ventilation volume
Manual configuration of CPR protocols
Printable detailed CPR assessment

Other features

Vocal sounds
Speech (preloaded phrases or instructor's microphone)
Pre-installed themes, scenarios, programs
Realistic bone structure, palpable ribs, and many more

Software

Instructor software
Bedside monitor imitator
Scenario Constructor
Debriefing



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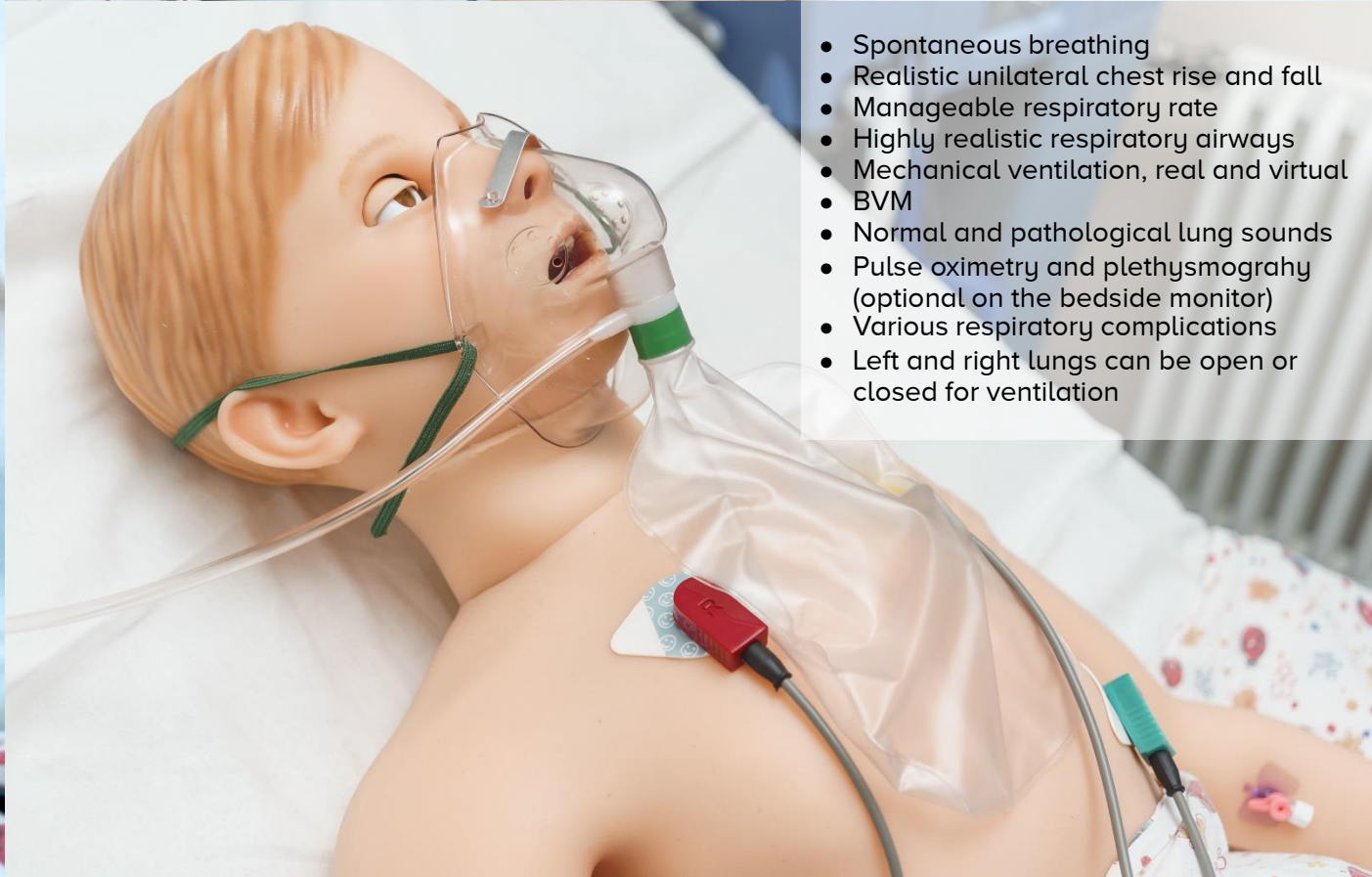
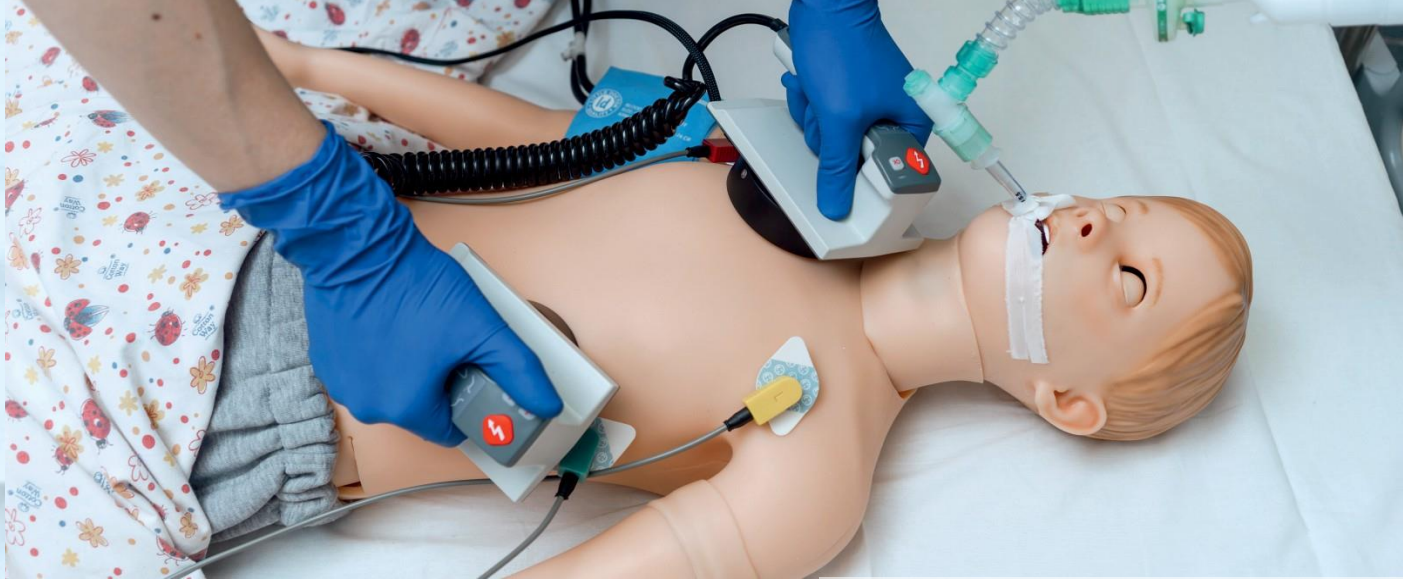
Arthur

Arthur will assess all of your actions during resuscitation and then provide detailed feedback.

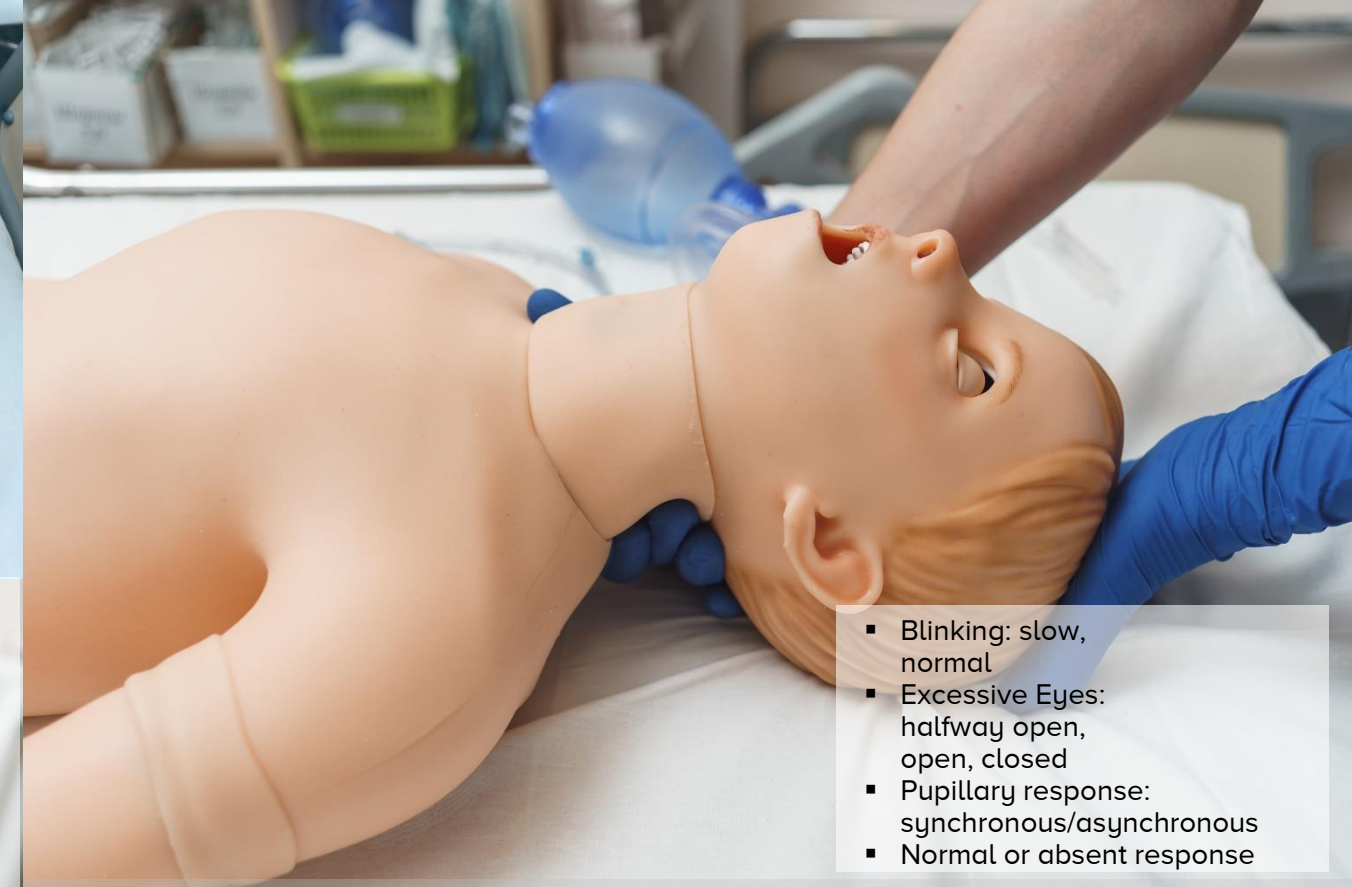
Powerful and intuitive, a perfect symbiosis of hardware and software: access our ever-expanding library of clinical cases or create your own.

Highlights

- Interactive eyes
- Realistic airways
- Real medical ventilator compatibility
- Real devices for ECG and pulse monitoring, defibrillation, noninvasive BP monitoring
- Cricothyrotomy, needle decompression of tension pneumothorax
- CPR with elaborate performance assessment (multiple parameters)



- Spontaneous breathing
- Realistic unilateral chest rise and fall
- Manageable respiratory rate
- Highly realistic respiratory airways
- Mechanical ventilation, real and virtual BVM
- Normal and pathological lung sounds
- Pulse oximetry and plethysmography (optional on the bedside monitor)
- Various respiratory complications
- Left and right lungs can be open or closed for ventilation



- Blinking: slow, normal
- Excessive Eyes: halfway open, open, closed
- Pupillary response: synchronous/asynchronous
- Normal or absent response

Arthur Essential is a 5-8 year old pediatric patient simulator developed and produced by MedVision, created, to bring pediatric patient care to a whole new level. We took the best from our LEONARDO simulator and carefully carried it to Arthur, resulting in Arthur's conformity to all pediatric care requirements and standards.



Software

The instructor software allows making a training scenario. All exercises are based on real clinical cases. Scenarios are based on real patients' history and case records.

Physical examination and care



Pulse palpation



SpO2 monitoring



Independent pupillary light reflex



Intubation procedure



CPR



Mechanical ventilation

Automatic drug, injected volume and speed recognition



Intravenous injections



Intraosseous infusion