



Arthur[™]

**PATIENT SIMULATOR
TRAINING FOR ACUTE PEDIATRIC EMERGENCIES**



When caring for a young child, communication skills are as critical as the technical skills required to manage pediatric emergencies. Arthur has been designed to support those working in child health to effectively communicate, assess, diagnose and treat young patients in a diverse range of critical scenarios and in a variety of clinical settings. Arthur represents a 5-8 year old boy that simulates a wide range of conditions. From a healthy, talking child to being unresponsive with no vital signs, Arthur provides meaningful learning experiences through his extensive range of features.

- Realistic Airway
- Real mechanical ventilator compatibility
- Real devices can be used for ECG, pulse monitoring, defibrillation and BP monitoring
- Cricothyrotomy, needle decompression of tension pneumothorax CPR with comprehensive performance assessment



BASIC TO ADVANCED PATIENT EXAMINATIONS

- From pulse checks and SpO2 monitoring to checking pupillary light reflexes for neurological assessment, Arthur allows for a complete patient examination



INTERACTIVE EYES

- Blinking: open, half-open or closed
- Pupillary responses: normal or absent response



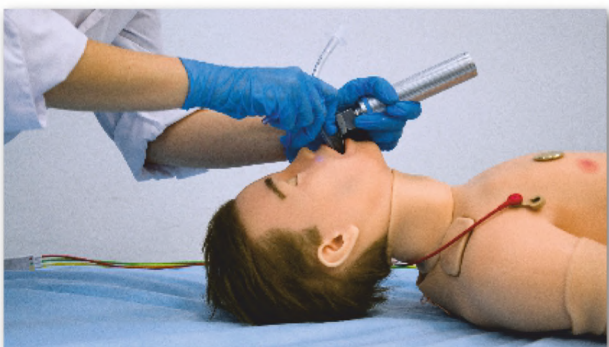
RESUSCITATION SCENARIOS

- Realistic chest compressions: rate, depth, hands placement and ventilation volume. Arthur's activity log will capture all aspects of performance to ensure compliance with Guidelines



DRUG ADMINISTRATION

- IV drug recognition, injected volume and speed recognition
- Pre-installed catheter



INTEGRATION ALS INTO EMERGENCY SCENARIOS

- Incorporating essential skills including difficult airway, IV administration, 10 infusions, intubation and hypoxia



Available in several skin tones

FEATURES

AIRWAY

- .Realistic Airway
- .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
- .Bag valve mask (BVM)
- .Cyanosis and acrocyanosis
- .Chest rise and fall
- .Bilateral lung resistance

BREATHING

- .Spontaneous breathing
- .Respiratory rate is synchronized with vital parameters on the bedside monitor
- .Programmable respiratory patterns
- .Mechanical ventilation
- .PEEP (up to 20cm H₂O)
- .Airways synced to the respiratory rate
- .Variable compliance
- .Variable bronchi resistance
- .Needle decompression with realistic feedback

AUSCULTATION

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

NEUROLOGY

- .Convulsions
- .Programmable blinking
- .Programmable pupils

CIRCULATION

- .Rich library of ECG rhythms
- .HR0-320
- .Real ECG electrodes
- .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 the HR and ECG
- .Defibrillation, cardioversion and cardiac pacing using real devices
- .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
- .Printable detailed CPR assessment

VASCULAR ACCESS

- .Intravenous injections with automatic drugs recognition (pre-installed catheter)
- .Intraosseous access (tibia, bilateral)

OTHERS

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