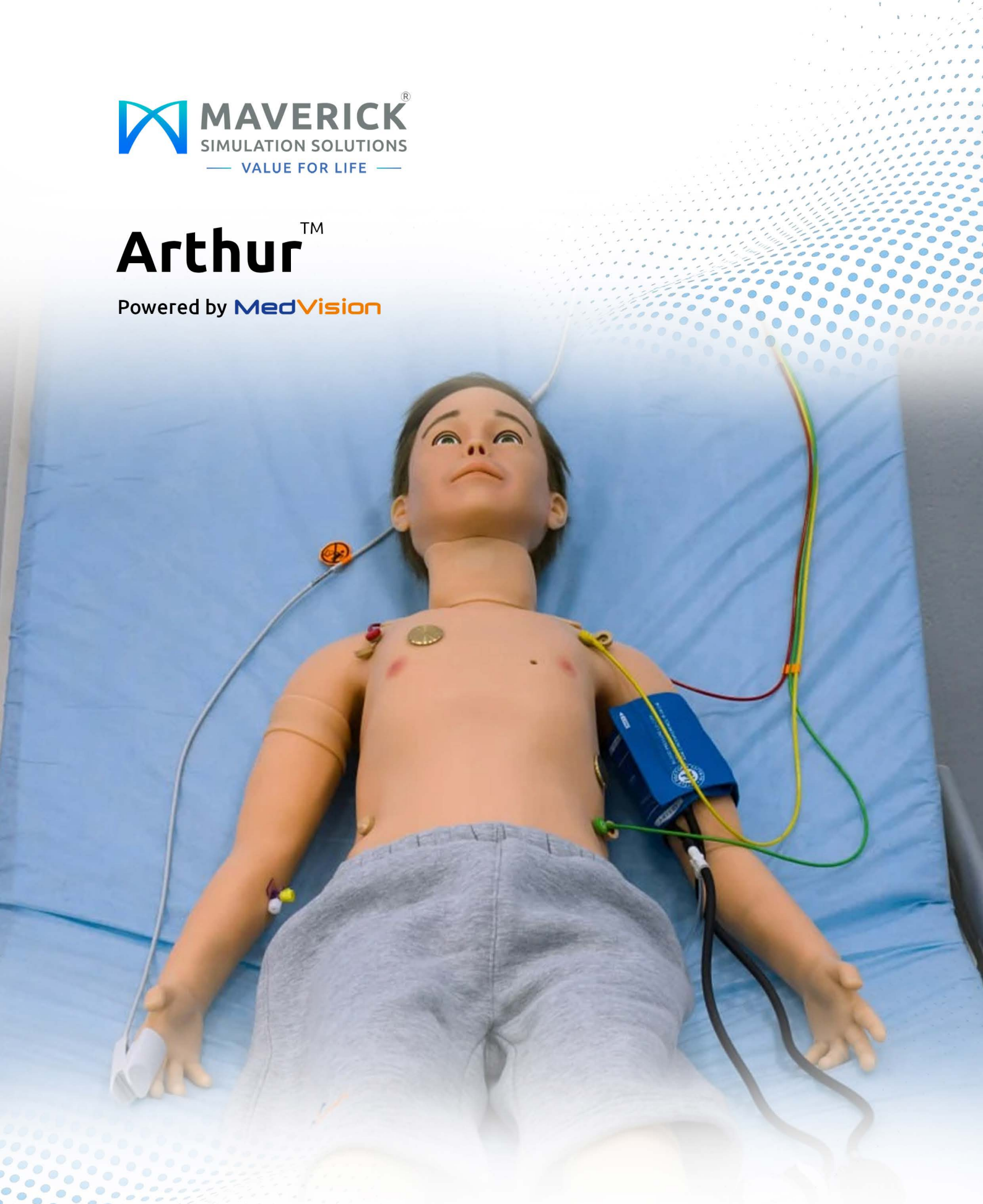
MAVERICK®
SIMULATION SOLUTIONS
VALUE FOR LIFE

Arthur™

Powered by MedVision



PATIENT SIMULATOR
TRAINING FOR ACUTE PAEDIATRIC 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. He has a height of 48 inches and weighs 20.5 kg. 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

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

AUSCULTATION



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

BREATHING

- Spontaneous breathing
- Respiratory rate is synchronized with vital parameters on the bedside monitor
- Programmable respiratory patterns
- Mechanical ventilation
- PEEP (up to 20 cm H_2O)
- Airways synced to the respiratory rate
- Variable compliance
- Variable bronchial resistance
- Needle decompression with realistic feedback

CIRCULATION

- Rich library of ECG rhythms
- 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

NEUROLOGY

- Convulsions
- Programmable blinking: open, half-open or closed
- Programmable pupils: normal or absent response

VASCULAR ACCESS

- Intravenous injections with automatic drugs recognition (pre-installed catheter), injected volume and speed recognition
- Intraosseous access (tibia, bilateral)

OTHERS

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



Real parameters can be seen in real anaesthesia machine.

CLINICAL USE DISCLAIMER: *Arthur is licensed for use for education and training purpose only and not intended for clinical use.*

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REVOLUTIONIZING MEDICAL TRAINING

WITH CUTTING EDGE SIMULATORS

Maverick Simulation Solutions Ltd. is a trusted medical simulation company advancing healthcare education through the design, manufacturing, and deployment of state-of-the-art simulators. Led by experts across engineering and clinical domains, we deliver innovations that measurably improve training quality, learner competency, and patient safety.

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