

CAE Aria, our new high-fidelity pediatric medical manikin, adds realism to educational scenarios to better prepare students and practicing professionals for the moments that matter. Training with CAE Aria reduces medical errors, improves performance and enhances pediatric patient care.



Simulating a 7-year-old child, CAE Aria offers interchangeable gender, 60 vocal expressions and sounds, an advanced airway and neurological features, all of which enable students and clinicians to:

- Assess verbal cues, like confusion, anxiety, stress and pain
- Learn airway management skills
- Conduct neurological evaluations
- Train for pediatric emergencies as if they were really happening

In addition, this patient simulator prepares students and professionals for real-world medical scenarios by offering risk-free practice; and supports training for PALS, PEARS and APLS certifications.

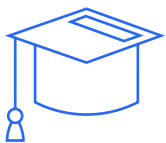
Included simulated clinical experiences

- Accidental electrocution
- Accidental overdose
- Burn injury
- Closed head injury
- Diabetic ketoacidosis with hypoxemia
- Envenomation
- Gunshot wound
- Obstructed airway
- Submersion injury
- Trauma with pneumothorax



Lifelike care in any situation

Wireless and tetherless, CAE Aria can be put into realistic and relevant training situations, like a home or ambulance. That means learners stay in the moment, wherever that may be.



Academic programs

Reduce the need for pediatric clinical sites by leveraging CAE Aria's lifelike responses in a risk-free environment



General/children's hospitals

Maintain life saving pediatric certifications by using CAE Aria to refresh the skills and reflexes of nurses, doctors and healthcare professionals



Emergency medical services

Learn proper assessment, transport, handoffs and pediatric response

Learn More About CAE Aria

Call us at +1.941.377.5562 or email SRQAccountmanagers@cae.com.

caehealthcare.com

Technical Specifications

Manikin

Height: 48" H (121.92 cm)

Weight: 50 lbs. (22.68 kg)

Electrical

AC Input: 115/230V 50/60Hz

2 internal batteries: 14.4V, 6.90Ah lithium-ion, rechargeable

Manikin battery life: approximately 5 hours

Available in two skin tones: Medium Dark

Standard Equipment

Software-compatible tablet
 CAE Maestro instructor-driven software platform (manual mode)
 CAE Maestro Standalone software license (1)
 1 wireless StethoSym
 One year of CAE Express Warranty support and maintenance
 Electronic emulated patient monitor software
 Electronic user guide
 SymDefib external defibrillator box

Optional Equipment

Patient monitor computer
 Additional StethoSym units
 CAE Maestro physiology
 Additional Maestro Standalone licenses
 CAE LearningSpace

Key Features & Benefits

Airway (assess and manage airway)

Anatomically accurate oral cavity and realistic airway
 Nasotracheal/orotracheal intubation (ET tube)
 Retrograde and fiberoptic intubation
 Transtracheal jet ventilation
 Articulation to support head tilt, chin lift, and jaw thrust
 Distended abdomen with esophageal intubation
 LMA, i-gel® and King insertion
 Oral and nasal pharyngeal airway insertion
 Bag-valve-mask support and recognition
 Surgical/needle cricothyrotomy
 Tracheostomy
 Abdominal distention with esophageal intubation
 Swollen tongue, pharyngeal swelling and laryngospasm to provide challenging intubation
 Automatic detection and logging of right main stem
 Unilateral chest rise and lung sounds with right main stem
 Bronchial occlusion
 Variable lung compliance and resistance

Articulation

Neck supports joint articulation with the ability to set for nuchal rigidity (stiff neck)
 Realistic joint articulation in neck, shoulders, elbows, hips and knees
 Forearm pronation and supination

Cardiac (assess and manage cardiac status)

Chest compression feedback and monitoring compliant with AHA CPR requirements.
 Effective chest compressions generate palpable femoral pulses and electrocardiogram (ECG) activity
 Supports ECG monitoring using real devices/ECG monitors
 Chest compression depth sensor providing real-time quality feedback and reporting
 Library of over 55 cardiac rhythms
 Software-based 12-lead ECG

Circulation (assess and manage perfusion status)

Bilateral palpable pulses with event detection and logging
 - Carotid, brachial, radial, femoral, popliteal, dorsalis pedis
 Pulse palpation event detection and logging
 Blood pressure-dependent pulses
 Non-invasive blood pressure with Korotkoff sounds
 Variable pulse strength
 Circumoral cyanosis
 Peripheral capillary refill (normal, delayed, or none)
 Fingertick blood glucose testing with real equipment

Gastric and Urinary (assess and manage gastrointestinal and genitourinary status; deliver and manage medications and fluids; perform catheter and enema insertions)

Interchangeable female and male genitalia
 Urinary catheterization with urine output
 Orogastric/nasogastric tube (no fluids)
 Gastrostomy tube (with fluids)
 Suppository administration

Neurologic (perform neurological assessments to identify abnormalities/deficiencies)

SymEyes with pupil reactivity and condition presets
 Pain response(verbal) via sternal rub
 Convulsions

Respiratory (assess and manage breathing)

Compliant with 2020 AHA BLS guidelines and 2021 ERC guidelines
 Spontaneous breathing with chest rise and fall
 Visible chest rise during bag-valve-mask ventilation
 Variable inspiratory/expiratory ratios
 Substernal retractions
 Mechanical ventilation support
 - Supports asynchronous volume and pressure-controlled ventilation
 - Supports PEEP (up to 20 cm H2O)
 Ventilation measurement
 Simulated pulse oximeter
 Chest tube placement
 Unilateral mid-clavicular needle decompression with detection, automatic resolution, and logging
 Automatic detection, resolution and logging of mid-clavicular needle decompression

Sounds

Auscultation of normal and abnormal heart, lung, and abdominal sounds with volume control
 60+ scripted male/female vocal expressions and sounds
 Wireless voice capability

Vascular Access (manage intravenous and intraosseous access for medication delivery)

Unilateral anterolateral thigh intramuscular and subcutaneous injection sites
 Humeral IO (no fluids) and tibial IO (no fluids)
 Antecubital venipuncture site with flashback
 Pre-ported jugular catheter and dorsum of left hand