CAE

CAE Apollo

Introduce learners to the full spectrum of healthcare scenarios with CAE Apollo. Available in two configurations—prehospital and nursing—this wireless and tetherless adult manikin accelerates learning, decreases time to proficiency and increases debriefing efficacy through automated and relevant patient responses.

Built with powerful features to enhance medical training, CAE Apollo uses proprietary modeled physiology to automatically trigger patient behaviors and actions, including:

• Blinking

• Reactive pupils

• Tongue swelling

• Bleeding and fluid drainage

• Bilateral pulses

• Uni- and bilateral chest expansion

• Lung, heart and abdominal sounds

• Abdominal distension with esophageal intubation

A self-contained unit with its own wireless router, CAE Apollo serves as the hub for integrated scenarios and can easily connect to CAE Maestro and CAE SimEquip without accessing the local network.

With high-fidelity features, this patient simulator provides learners with an immersive and authentic experience to prepare for the moments that matter.

CAE Apollo in use with CAE SimEquip

Adaptable patient care

CAE Apollo has been field-tested by thousands of customers worldwide and is recognized for its realism, relevance, versatility and reliability.

CAE Apollo Prehospital

Real Equipment
Realistic airway equipment, cardiac monitors and electrical therapy provide true-to-life experience.

Lifesaving Lessons
Realistic skin, facial movements and airway conditions prepare learners to assess and address respiratory complications.

Blood Bank
Bleeding from upper and lower extremities enhances trauma training and care.

CAE Apollo Nursing

Real Fluids
Perform gastric and airway suctioning using real fluids.

IV Access
Varying veins, valves and access points create realistic conditions to learn and practice proper IV sizing and placement.

Trach Training
Practice tracheostomy care, including suctioning the tube and removing secretions to ensure the patient airway remains open.

Learn More About CAE Apollo

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

caehealthcare.com

CAE Apollo
Technical Specifications

Manikin
74" H x 26" W x 11" D (188 cm x 66 cm x 28 cm)
100 lbs. (45.4 kg)

Electrical
AC Input: AC 90-240VAC, 50/60Hz
2 internal batteries: 18.5V, 233Wh lithium-ion, rechargeable

Available in two skin tones: Medium Dark

Available in two models: Prehospital and Nursing

Standard Equipment
Microsoft Surface Tablet (Surface Pro and Surface Go)

CAE Maestro physiologically driven operating software

Four simulated clinical experiences (SCEs)
 - Anaphylaxis
 - Heart failure with pulmonary edema
 - Severe asthma
 - Subdural hematoma

One CAE Maestro Standalone license including the modeled physiology option

Ultrasound scan records: normal and pathologic cases including cardiac, abdominal, FAST and pleural surface scans

Simulated patient monitor software

Electronic user guide

CAE Premier warranty plan with customer and technical support, Training for Life™ and option to renew

Optional Equipment
Patient monitor computer

Additional battery pack

FX-simulated wound kit and limb injuries

CAE SimEquip defibrillator/transport vent/ventilator/anesthesia

Hands-free defibrillation cable kit

Wall air kit

Manikin tool kit

Optional Software
Learning modules (more than 15 available)

Key Features & Benefits

Airway (assess and manage airway)
Bag-valve-mask ventilation with chest rise/fall and software recognition

Head tilt/chin lift

Jaw thrust

Tongue swelling

Bronchial occluder

Surgical cricothyrotomy

Needle cricothyrotomy

Laryngeal mask airways (LMA) and other supraglottic airway devices including King and I-Gel airway devices

Articulation
Articulating neck, shoulders, elbows, arms, knees and hips

Cardiovascular (assess and manage perfusion status)
Defibrillation and cardioversion using live defibrillators

Pacing (use of hands-free pads)

12-lead dynamic ECG display

Cardiac library of over 50 rhythms

ECG monitoring posts and interface with real ECG monitor

Bilateral blood pressure measurement by auscultation and palpation

Bilateral carotid, brachial, radial, femoral, popliteal and dorsalis pedis pulses

CPR
Compliant with 2020 AHA BLS guidelines and 2021 ERC guidelines measuring depth, rate and chest compression ratio

Adequate chest compressions result in simulated circulation, cardiac output, central and peripheral blood pressures, carbon dioxide return

Hand-placement detection

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

Bowel sounds, all four quadrants

Neurological (perform neurological assessments to identify abnormalities/deficiencies)
Blinking and reactive pupils with multiple settings

Convulsions

Respiratory (assess and manage breathing)
Bilateral and unilateral chest rise and fall

Spontaneous breathing

Bronchial occlusion

Integrated SpO2 finger probe with simulated patient monitor

Bilateral chest tube insertion, sensored, with fluid output

Sounds
Prerecorded sounds and speech, custom vocalization by the user via wireless microphone

Heart, bowel and breath sounds (anterior and posterior) independently controlled

Audible breathing sounds (wheezing and gasping)

Trauma
Bleeding and fluid drainage linked to physiology

Two simultaneous bleeding/moulage sites with 1.5 L blood tank capacity

Limbs can be removed at the knees and elbows to support amputations

Automatic responses to 68 intravenous medications, including oxygen, when using modeled physiology

Responses are dose-dependent and follow appropriate time course

Urinary
Urinary catheterization with fluids

Interchangeable male and female genitalia

Vascular Access (manage intravenous and intraosseous access for medication delivery)
Bilateral IV placement sites in antecubital fossa and dorsum of hand

IM injection site

Humeral IO site

Prehospital Configuration Additional Features

Airway
Upper airway designed from CT scan data of a real human patient

Intubation: orotracheal, nasotracheal, retrograde, fiber optic

Right mainstem intubation detection

Gastric distention with esophageal intubation

Laryngospasm

Airway occluder

Posterior oropharynx occlusion

Breathing
Carbon dioxide exhalation with CO_2 cartridge

Bilateral needle decompression

Secretions
Eyes, nose and mouth

Nursing Configuration Additional Features

Airway
Airway reservoir supports suctioning of fluids via tracheostomy tube

Gastrointestinal
Gastric reservoir supports simulated gastric lavage, gavage and gastric suction

IV
Subclavian venous catheter

Reduce medical errors. Improve performance. Enhance patient care.

CAE