

CAE Apollo™ patient simulator

One High Fidelity Simulator. Two Patient Configurations.



CAE Apollo is the fully wireless and tetherless, high-fidelity adult patient simulator with CAE's modeled physiology. With two simulated patient configurations (prehospital and nursing), and advanced airway features based on the latest training protocols, Apollo offers the ultimate in versatility, functionality and lifetime product value.

Built on a platform that has been field-tested and proven by more than 1,600 customers around the world in nursing, allied healthcare and medical education, the Apollo patient simulator allows learners to practice, gain experience and develop clinical mastery in a wide range of patient care scenarios. Integrated CPR performance analysis that is compliant with the American Heart Association's 2015 guidelines enables learners to obtain procedural training in correct hand placement, depth, and rate of compressions. Apollo's inherent mobility gives instructors the added freedom they need to easily switch from remote tablet to classroom workstation within a single simulation encounter.

Stunningly real aesthetics and powerful training features combine to establish Apollo as the new standard for fidelity in patient simulation.



NEW!

Medium and dark skin options



Technical Specifications

Standard Equipment

Apollo wireless and tetherless manikin:
available in medium and dark skin tones

Instructor's workstation with 3 device options

2 Patient platforms to choose from:

Apollo Prehospital and Apollo Nursing

Müse physiologically driven operating software:

2 Patient profiles

4 Simulated Clinical Experiences (SCEs)

- Anaphylaxis
- Heart failure with pulmonary edema
- Severe young asthmatic
- Subdural hematoma

4 Müse SCE development licenses

Ultrasound Scan Records: normal and pathologic cases including cardiac, abdominal, FAST and pleural surface scans

Vivo instructor driven operating software:

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Electronic user guide

CAE Assurance value plan with customer and technical support, Training for Life™ and option to renew

Optional Equipment

TouchPro wireless emulated patient monitor

Vivo compatible tablet

Additional battery pack

FX simulated wound kit

FX simulated limb injuries

Hands-free cable kit

Wall air kit

Manikin tool kit

Optional Software

Learning Modules (More than 15 modules available)

Pharmacology Editor

Manikin

74" H x 26" W x 11" D (188cm x 66cm x 28cm)

100lbs (45.4kg)

Electrical

AC Input: AC 90-240VAC, 50/60Hz

Internal batteries: 18.5V, 233 Wh
lithium-ion, rechargeable

Key Features

Airway

- Bag-valve-mask ventilation
- Head tilt/chin lift
- Jaw thrust
- Tongue swelling
- Bronchial occluder

Breathing

- Bilateral and unilateral chest rise and fall
- Spontaneous breathing
- Integrated SpO2 finger probe with simulated patient monitor
- Breath sounds over entire lungs
- Bilateral chest tube insertion, sensed, with fluid output
- Pulmonary artery catheter and ability to wedge the catheter, with display on the waveform display monitor or a physiologic monitor

Circulation

- Defibrillation and cardioversion using live defibrillators
- Pacing (use of hands-free pads)
- 12-lead dynamic ECG display
- ECG monitoring posts and interface with real ECG monitor
- Bilateral blood pressure measurement by auscultation and palpation
- Bilateral carotid, brachial, radial, femoral, popliteal, posterior tibia, dorsalis pedis pulses

CPR

- New: CPR analysis that is compliant with AHA 2015 guidelines
- Adequate chest compressions result in simulated circulation, cardiac output, central and peripheral blood pressures, carbon dioxide return
- Correct hand placement

IV Placement / IO or IM Injections

- Bilateral IV placement sites in antecubital fossa and dorsum of hand
- IM injection site right deltoid
- Humeral IO site left deltoid

Neurological

- Blinking and reactive eyes with multiple settings
- Convulsions

Gastrointestinal

- Nasogastric tube placement
- Bowel sounds all 4 quadrants

Urinary

- Urinary catheterization
- Interchangeable genitalia

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



Pharmacology System

- Automatically calculates 68 intravenous and inhaled medications
- Responses are automatic, dose dependent and follow appropriate time course

Sounds

- Pre-recorded sounds and speech, custom vocalization recorded by the user, microphone
- Heart, bowel, and breath sounds (anterior and posterior) independently controlled (type and volume)
- Audible breathing sounds (wheezing and gasping)

Articulation

- Range of motion in the wrists, elbows, knees and ankles

Prehospital Platform Additional Features

Airway

- Upper airway designed from CT scan data of a real human patient
- Surgical cricothyrotomy
- Needle cricothyrotomy
- Intubation: orotracheal, nasotracheal, ET tubes, LMA, retrograde, fiber optic, right mainstem
- Breakaway teeth
- Gastric distention with esophageal intubation
- Laryngospasm
- Airway occluder
- Posterior oropharynx occlusion

Breathing

- Measures the presence or absence of carbon dioxide exhalation
- Bilateral needle decompression

Secretions

- Eye, nose and mouth

Nursing Platform Additional Features

Airway

- Airway reservoir supports suctioning of fluids via tracheostomy tube

IV Placement / IO or IM Injections

- Subclavian venous catheter

Gastrointestinal

- Gastric reservoir supports simulated gavage, lavage and gastric suction