

## PREHOSPITAL AND NURSING PATIENT SIMULATOR

# Apollo

Introduce learners to the full spectrum of healthcare scenarios with 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, 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, Apollo serves as the hub for integrated scenarios and can easily connect to Maestro and 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.



### 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.

### 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.

**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)

Maestro physiologically driven operating software

Four simulated clinical experiences (SCEs)

- Anaphylaxis
- Severe asthma
- Heart failure with pulmonary edema
- Subdural hematoma

One 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

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

**Optional Equipment**

Patient monitor computer                      Hands-free defibrillation cable kit

Additional battery pack                      Wall air kit

FX-simulated wound kit and limb injuries                      Manikin tool kit

SimEquip defibrillator/transport vent/ventilator/anesthesia

**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                      Bronchial occluder

Jaw thrust                      Surgical cricothyrotomy

Tongue swelling                      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, sensed, 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 CO2 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

