

## 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

Apollo is a self-contained manikin and has an internal wireless router that connects to the Maestro operating software and SimEquip without requiring access to 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 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:  Caucasian  Black/African American

Available in two models: Prehospital and Nursing

Apollo Simulator Package	
Apollo Prehospital Simulator	
Unique additions include difficult airway and needle decompression	
Instructor operating device	Maestro standalone license
Physiology license	First Year Manufacturer's Warranty
4 Simulated Clinical Experiences (SCEs)	
Apollo Moulage Starter Kit (stop the bleed arm, set of 5 foreign body sticky wounds, 2 fine skin rash sticky wounds, pitting edema sticky pads, 2 ecchymosis sticky wounds, set of 4 6x3 burn sticky wounds, peripheral IV catheterization arm, clear)	
Apollo Nursing Simulator	
Unique additions include simple airway, NG/tracheal suctioning and central line functionality	
Instructor operating device	Maestro standalone license
Physiology license	First Year Manufacturer's Warranty
4 Simulated Clinical Experiences (SCEs)	
Apollo Moulage Starter Kit (6-piece sticky wound kit, 2 fine skin rash sticky wounds, pitting edema sticky pads, set of 4 6x3 burn sticky wounds, injectable abdomen with protection plate and belt, peripheral IV catheterization arm, clear)	
Optional Accessories	
All-in-one computer for patient monitor	Tablet Computer for Patient Monitor
Extra battery	Hands-free kit
Learning Modules (15+ available)	Soft-sided manikin case
SimEquip defibrillator/ventilator/anesthesia	
Optional Training	
Apollo includes Installation and Product Familiarization	
Cohort course by an Elevate technician	
Customers may elect to upgrade to the following training solutions by a Clinical educator:	
▪ 2 Day SimPro On-Location    ▪ 3 Day SimPro Premier at Elevate HQ	
Key Features & Benefits	
Airway (assess and manage airway)	
Bag-valve-mask ventilation with chest rise/fall and software recognition	
Laryngeal mask airways (LMA) and other supraglottic airway devices including King and I-Gel airway devices	
Head tilt/chin lift	Bronchial occluder
Jaw thrust	Surgical cricothyrotomy
Tongue swelling	Needle cricothyrotomy
Articulation	
Articulating neck, shoulders, elbows, arms, knees and hips	
Cardiovascular (assess and manage perfusion status)	
Defibrillation and cardioversion using live defibrillators	
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	
Pacing (use of hands-free pads)	12-lead dynamic ECG display
Cardiac library of over 50 rhythms	

### 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

Integrated SpO2 finger probe with simulated patient monitor

Bilateral chest tube insertion, sensed, with fluid output

Spontaneous breathing

Bronchial occlusion

**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

Gastric distention with esophageal intubation

Right mainstem intubation detection

Airway occluder

Laryngospasm

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