SimMan 3G is an adult patient simulator designed to deliver the most realistic training possible. It comes with a long list of features that will optimize simulation training scenarios including automatic drug recognition, light sensitive pupils and bodily fluid excretion.

**FEATURES:**

**Multiple Airway Skills:**
- Controllable open/closed airway; automatically or manually controlled
- Head tilt/Chin lift
- Jaw thrust w/articulated jaw
- Suctioning (Oral & Nasopharyngeal)
- Bag-mask ventilation
- Orotracheal intubation
- Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy
- Surgical cricothyrotomy
- Variable lung compliance - 4 settings
- Variable airway resistance - 4 settings
- Right main stem intubation
- Stomach distention
- Connectivity with third party respiratory simulations
**Airway Complications:**
- Detection of proper head position
- Can’t intubate/Can ventilate
- Can’t intubate/Can’t ventilate
- Tongue edema
- Pharyngeal swelling
- Laryngospasm
- Decreased cervical range of motion
- Trismus

**Breathing:**
- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO2 exhalation
- Normal and abnormal breath sounds
  - 5 anterior auscultation sites
  - 6 posterior auscultation sites
- Oxygen saturation and waveform

**Breathing Complications:**
- Cyanosis
- Needle thoracentesis - bi-lateral
- Unilateral & Bilateral chest movement
- Unilateral, Bilateral & lobar breath sounds
- Chest tube insertion – bilateral

**Circulation:**
- BP measured manually by auscultation of Korotkoff sounds
- Carotid, femoral, brachial, radial, dorsalis pedis, popliteal and posterior tibialis pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse Palpation is detected & logged

**Cardiac:**
- Extensive ECG library
- Heart sounds - four anterior locations
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

**Vascular Access:**
- IV access (right arm)
- Intraosseous access (tibia)
- Automatic Drug Recognition System

**CPR:**
- Compliant with 2010 Guidelines
- CPR compressions generate palpable pulses, blood pressure wave form, and ECG artefacts
- Realistic compression depth and resistance
- Detection of depth, release and frequency of compressions
Real time feedback on quality of CPR

**Eyes:**
- Blinking - slow, normal, fast and winks
- Open, closed and partially open
- Pupillary accommodation:
  - synchrony/asynchrony
  - normal and sluggish speed of response

**Other Features:**
- Seizure/Fasciculation
- Bleeding
  - Simulation of bleeding at multiple sites
  - Arterial and venous
  - Vital signs automatically respond to blood loss & therapy
  - Works with various wound modules & moulage kits
- Urine output (variable)
- Foley catheterization
- Secretions
  - Eyes, Ears, Nose, Mouth
  - Blood, Mucous, CSF, etc.
- Diaphoresis
- Bowel Sounds - four quadrants
- Patient Voice
  - Pre-recorded sounds
  - Custom sounds
  - Instructor can simulate patient’s voice wirelessly
- Instructor Communication
  - Multiple instructors communicate using integrated voice over IP

**Pharmacology:**
- Automatic Drug Recognition System identifies drug & dose
- Extensive drug formulary
- Automatic or programmable physiological responses