Immersive training for emergency care procedures

SimMan® 3G PLUS

A realistic, full-body adult patient simulator, SimMan 3G PLUS is easy to operate and designed for a fully immersive simulation experience. Learners and healthcare professionals can perform individual or interdisciplinary team training, practicing critical skills such as decision-making, team communication, and patient care, all in a risk-free environment.

Practice high-quality, equitable care integrating advanced clinical features and interchangeable headskins that allow for more realistic patient encounters that help learners prepare for real-world situations.
SimMan® 3G PLUS

MULTIPLE AIRWAY SKILLS/FEATURES
- Controllable open/closed airway, automatically or manually controlled
- Head tilt/Chin lift
- Jaw thrust/articulated jaw
- Suctioning (Oral & Nasopharyngeal)
- Bag-mask ventilation
- Nasal cannulation
- Orotracheal/Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle/Surgical cricothyotomy
- Variable lung compliance – 4 settings
- Variable airway resistance – 4 settings
- Right main stem intubation
- Stomach distention

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

BREATHEING FEATURES
- Simulated spontaneous breathing
- Blunted 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

BREATHEING COMPLICATIONS
- Cyanosis
- Needle thoracentesis – bilateral
- Unilateral & Blateral chest movement
- Unilateral, Blateral & lobar breath sounds
- Chest tube insertion – bilateral

CARDIAC FEATURES
- Extensive ECG library
- Heart sounds – four anterior locations
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion using live defibrillation pads or paddles
- Pacing

CIRCULATION FEATURES
- Oscillometric BP measurement
- Carotid, femoral, brachial, radial, dorsalis pedis, popliteal and posterior tibials pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected & logged

VASCULAR ACCESS
- Bilateral perproted IV access
- Bilateral humeral IO
- Tibial IO
- Bilateral deltoid IM

CPR
- Compliant with current Guidelines
- CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth, release and frequency of compressions
- Real time feedback on quality of CPR

PHYSIOLOGIC PARAMETERS
- Pacing
- Defibrillation and cardioversion using live defibrillation pads or paddles
- Fully articulating pelvis
- Leg rotation in all natural directions
- Articulating arms

PHARMACOLOGY
- Extensive drug formulary
- Automatic or programmable physiological responses

CERTIFICATIONS
- UL, CE, FCC, CSA

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

SPECIAL FEATURES
- Interchangeable headskins (Adult, Geriatric)
- SpO2 measurement with pulse oximeter
- 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 and Ears
- Blood, CSF, etc.
- Diaphoresis
- Bowel Sounds – four quadrants
- Patient Voice
- Pre-recorded and custom sounds
- Instructor can simulate patient's voice wirelessly
- Instructor Communication
- Multiple instructors communicate using integrated voice over IP
- Fully articulating pelvis
- Leg rotation in all natural directions
- Articulating arms

OTHER FEATURES
- VitalsBridge
- Laerdal-SonoSim Ultrasound Solution 2.0
- ASL 5000 Lung Solution
- Cardiac output

ECG/ECG RHYTHM MONITORING
- Time stamped activities, vital signs, and ECG responses
- Future prediction and patient outcome display
- Simulation controls; fast forward, pause, rewinding, save/restores
- Control simulation from anywhere on your interface
- Control multiple manikins from one interface
- Control simulation from anywhere on your network
- Use Manual Mode to run "on-the-fly" for total control over all parameters
- Utilize Automatic Mode with pre-programmed scenario for a simple and standardized way to run a simulation
- Patient cases utilizing physiological and pharmacological models
- Pre-programmed scenarios

PATIENT MONITOR
- Touch-screen simulated patient monitor provides concise clinical feedback for physiological parameters
- The monitor's color screen is configurable and provides multiple simulated parameters, each presenting multi-level alarms
- Simulated parameters include ECG (2 traces), SpO2, CO2, AP, ABP, CI, PCWP, NIBP, TOF, Cardiac output, Temperature (core and peripheral), additional and programmable parameters e.g. ICP
- X-Ray Display
- 12 Lead ECG
- Custom Image Display
- Custom Video Display
- Oxygen saturation and waveform

ORDERING INFORMATION
212-03350 SimMan 3G PLUS Light
212-03150 SimMan 3G PLUS Medium
212-03250 SimMan 3G PLUS Dark
Includes: SimMan 3G PLUS Manikin, LLEAP Software and License, USB Headset/Microphone, Wounds Kit, Specially Designed Clothing (Trousers, Shirt, Gown), Simulated Patient Cables, Soft-sided Carry Cases

COMPUTER OPTIONS
400-10201 Laptop Instructor/Patient Monitor
400-09201 Tablet-PC Instructor/Patient Monitor
400-09501 Rugged Tablet Instructor/Patient Monitor
400-29301 All In One Panel PC Instructor/Patient Monitor

OPTIONAL ACCESSORIES
212-37000 Adult Headskin Light
212-37010 Adult Headskin Medium
212-37200 Adult Headskin Dark
212-37100 Geriatric Headskin Light
212-37110 Geriatric Headskin Medium
212-37120 Geriatric Headskin Dark
212-07150 Rugged Carry Case

Supporting Products
- VitalsBridge
- Laerdal-SonoSim Ultrasound Solution 2.0
- ASL 5000 Lung Solution

Services
- Comprehensive Services to support your faculty competency development needs to optimize learning potential in your students
- Technical Services to help ensure your equipment is operational for maximum performance

Visit Laerdal.com for a complete listing of parts, accessories, and consumables

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