Laerdal®
helping save lives

Rugged Trauma Training

SimMan® 3G Trauma

SimMan® 3G Trauma's durable and rugged configuration
provides you with the flexibility to perform simulation-
based education in the environment of your choice;
in the classroom or in the field.

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For more information, visit us at
www.laerdal.com and learn more about
the SimMan 3G Trauma patient simulator.

SimMan® 3G Trauma

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

AIRWAY COMPLICATIONS:
- Detection of proper head position
- Can't intubate/Can't ventilate
- Can ventilate/Can't intubate
- Tongue edema
- Pharyngeal swelling
- Laryngospasm
- Decreased cervical range of motion
- Trismus

BREATHING FEATURES:
- Spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO2 exhalation
- EtCO2 and waveform display
- Normal and abnormal breath sounds
  - 5 anterior auscultation sites
  - 6 posterior auscultation sites
- Oxygen saturation and waveform display

BREATHING COMPLICATIONS:
- Cyanosis
- Needle thoracentesis – bilateral
- Unilateral and bilateral chest movement
- Unilateral, bilateral and lobar breath sounds
- Chest tube insertion – bilateral

CARDIAC FEATURES:
- Extensive ECG library
- Heart sounds – 4 anterior locations
- Simulated ECG rhythm monitoring (4 lead)
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

CIRCULATION FEATURES:
- 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 and logged

VASCULAR ACCESS:
- IV access (right arm)
- Intraosseous access (tibia and sternum)
- Bilateral thigh and deltoid IM sites

CPR:
- Compliant with 2010 Guidelines
- CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth and frequency of compressions
- Detection of leaning
- 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:
- Bleeding
  - Simulation of bleeding at multiple sites
  - Arterial and venous
  - Vital signs automatically respond to blood loss and therapy
  - Works with various wound modules and 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 Internet Protocol (VOIP)

AMPUTATIONS:
- Amputated left arm
- Amputated left leg
- Amputated right arm
- Amputated right calf skin

SYSTEM FEATURES:
- Wireless tablet PC controls simulator remotely
- Control multiple manikins from one interface
- Control simulations from anywhere on your network
- Multiple interfaces can control/observe a single simulation
- Instructor Mode
  - Precise control "on the fly"
  - Design and program custom scenarios
  - Create custom events
  - Run pre-programmed scenarios
- Auto Mode
  - Physiological models run pre-programmed simulations
  - Unique, simple controls increase/decrease difficulty and pace

- Simulation controls:
  - Fast forward
  - Pause
  - Rewind
  - Save/Restore
- Profile Editor
- Future prediction and patient outcome display
- Integrated video debriefing
- Data logging
- Instructor comments

PATIENT MONITOR:
- Wireless
- Rugged
- Highly configurable
- Includes:
  - ECG (2 traces)
  - SpO2
  - CO2
  - ABP
  - CVP
  - PAP
  - PCWP
  - NIBP
  - TOF
  - Anesthetic agent
  - pH
  - PTC
  - ICP
  - Cardiac output
  - Temperature (core and peripheral)
  - Additional and programmable parameters
- X-Ray display
- 12 Lead ECG display
- Custom image display
- Custom video display

CERTIFICATIONS:
- UL, CE, FCC, CSA, HMR

ORDERING INFORMATION:
212-08801   SimMan 3G Trauma

Includes: SimMan 3G Trauma Manikin, SimMan 3G Software and License, Rugged Instructor Tablet, Rugged Patient Monitor and Software, Simulated Patient Cables, Webcam, Soft-sided Carry Case , Amputations, 1 Year Manufacturer's Warranty

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Operation

Easy-to-use PC software generates a real-time event log synchronized with the patient monitor and video.

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SimCenter

Visit www.laerdal.com/SimCenter to learn how to optimize your simulation training using SimCenter and SimMan 3G Trauma.

SimStore
Access to validated, standardized content from industry experts

SimManager
A suite of online tools that allows you to fully optimize your entire simulation center operation

SimView
An integrated debriefing solution giving you the ability to study simulation events more closely

Services

Laerdal offers comprehensive Educational Services to support your curriculum, and Technical Services to meet your simulator servicing needs.

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