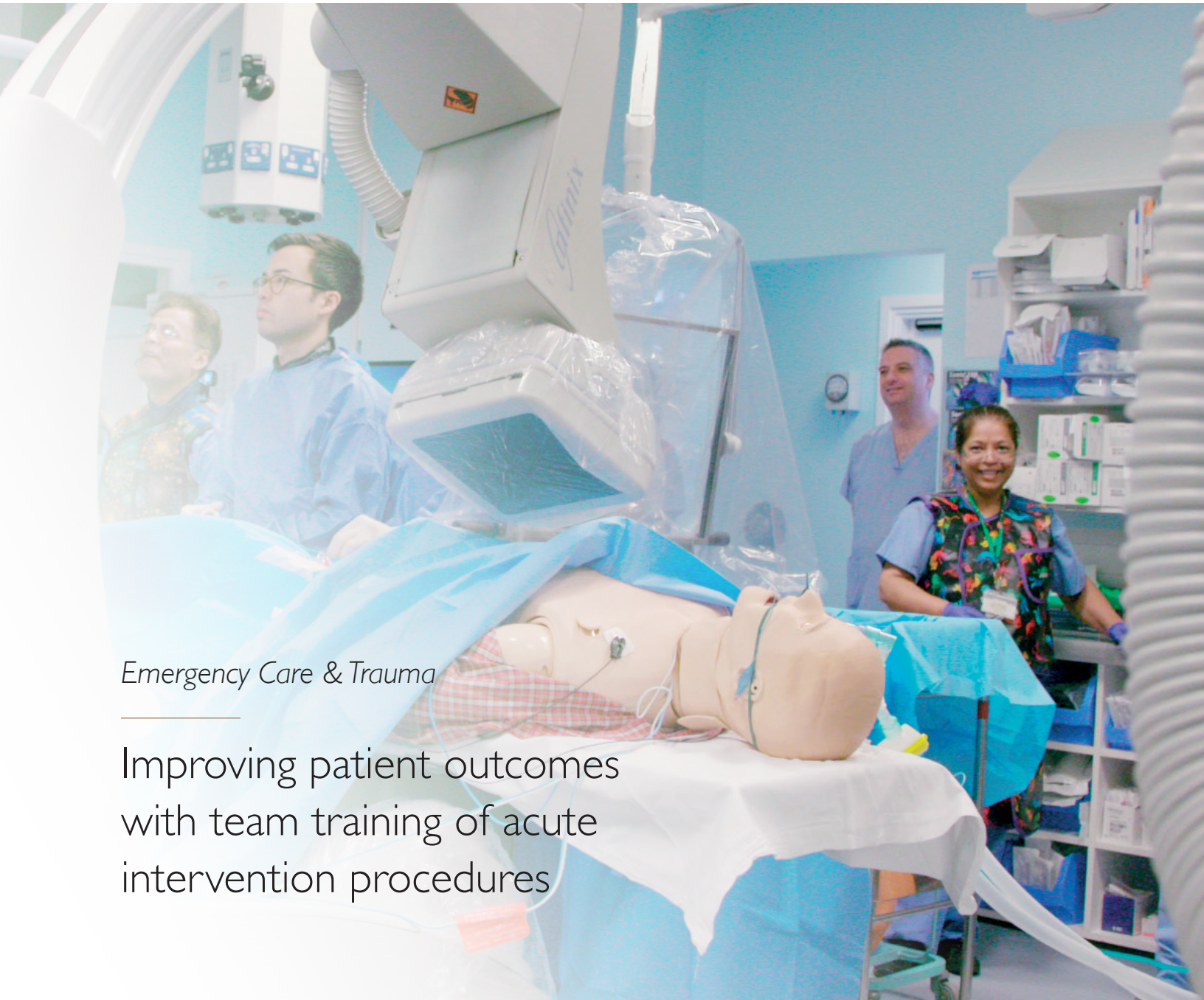




**Laerdal**  
helping save lives



**mentice**



*Emergency Care & Trauma*

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Improving patient outcomes  
with team training of acute  
intervention procedures

## SimMan® Vascular

SimMan Vascular is built on the trusted SimMan 3G platform with built-in Mentice VIST® endovascular technology to extend the immersive training course potential to the Endovascular Specialists, Cath Lab team, and Pre-Hospital care providers.

# SimMan® Vascular

<b>VASCULAR ACCESS</b> <ul style="list-style-type: none"> <li>• IV access (right arm)</li> <li>• Intraosseous access (tibia)</li> <li>• Automatic Drug Recognition System</li> </ul>	<b>BREATHING COMPLICATIONS</b> <ul style="list-style-type: none"> <li>• Cyanosis</li> <li>• Needle thoracocentesis – bilateral</li> <li>• Unilateral &amp; bilateral chest movement</li> <li>• Unilateral, bilateral &amp; lobar breath sounds</li> <li>• Chest tube insertion - bilateral</li> </ul>	<ul style="list-style-type: none"> <li>• Realistic compression depth and resistance</li> <li>• Detection of depth, release and frequency of compressions</li> <li>• Real time feedback on quality of CPR</li> </ul>	<b>SYSTEM FEATURES</b>
<b>MULTIPLE AIRWAY SKILLS/FEATURES</b> <ul style="list-style-type: none"> <li>• Controllable open/closed airway; automatically or manually controlled</li> <li>• Head tilt/Chin lift</li> <li>• Jaw thrust w/articulated jaw</li> <li>• Suctioning (Oral &amp; Nasopharyngeal)</li> <li>• Bag-mask ventilation</li> <li>• Nasal cannulation</li> <li>• Orotracheal/Nasotracheal intubation</li> <li>• Combitube, LMA, and other airway placement</li> <li>• Endotracheal tube intubation</li> <li>• Retrograde intubation</li> <li>• Fiberoptic intubation</li> <li>• Transtracheal jet ventilation</li> <li>• Needle/Surgical cricothyrotomy</li> <li>• Variable lung compliance – 4 settings</li> <li>• Variable airway resistance – 4 settings</li> <li>• Right main stem intubation</li> <li>• Stomach distention</li> </ul>	<b>CARDIAC FEATURES</b> <ul style="list-style-type: none"> <li>• Extensive ECG library</li> <li>• Heart sounds – four anterior locations</li> <li>• ECG rhythm monitoring (4 lead)</li> <li>• 12 lead ECG display</li> <li>• Defibrillation and cardioversion</li> <li>• Pacing</li> </ul>	<b>EYES</b> <ul style="list-style-type: none"> <li>• Blinking - slow, normal, fast and winks</li> <li>• Open, closed and partially open</li> <li>• Pupillary accommodation: <ul style="list-style-type: none"> <li>- synchrony/asynchrony</li> <li>- normal and sluggish speed of response</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Wireless instructor computer with LLEAP software</li> <li>• Control simulation from anywhere on your network</li> <li>• Use Manual Mode to run “on-the-fly” for total control over all parameters</li> <li>• Utilize Automatic Mode with pre-programmed scenario for a simple and standardized a simulation <ul style="list-style-type: none"> <li>- Patient cases utilizing physiological and pharmacological models</li> <li>- Pre-programmed scenarios</li> <li>- Self-authored content</li> </ul> </li> <li>• Simulation controls; fast forward, pause, rewind, save/restore</li> <li>• Profile editor</li> <li>• Future prediction and patient outcome display</li> <li>• Integrated video debriefing</li> <li>• Time stamped activities, vital signs, and instructor comments are captured in the event log</li> </ul>
<b>AIRWAY COMPLICATIONS</b> <ul style="list-style-type: none"> <li>• Detection of proper head position</li> <li>• Can't intubate/Can ventilate</li> <li>• Can't intubate/Can't ventilate</li> <li>• Tongue edema</li> <li>• Pharyngeal swelling</li> <li>• Laryngospasm</li> <li>• Decreased cervical range of motion</li> <li>• Trismus</li> </ul>	<b>CIRCULATION FEATURES</b> <ul style="list-style-type: none"> <li>• BP measured manually by auscultation of Korotkoff sounds</li> <li>• Carotid, brachial, radial, dorsalis pedis, popliteal and posterior tibialis pulses synchronized with ECG</li> <li>• Pulse strength variable with BP</li> <li>• Pulse palpation is detected &amp; logged</li> </ul>	<b>OTHER FEATURES</b> <ul style="list-style-type: none"> <li>• Seizure/Fasciculation</li> <li>• Bleeding <ul style="list-style-type: none"> <li>- Simulation of bleeding at multiple sites</li> <li>- Arterial and venous</li> <li>- Vital signs automatically respond to blood loss &amp; therapy</li> <li>- Works with various wound modules &amp; moulage kits</li> </ul> </li> <li>• Urine output (variable)</li> <li>• Foley catheterization</li> <li>• Secretions <ul style="list-style-type: none"> <li>- Eyes, Ears, Nose, Mouth</li> <li>- Blood, Mucous, CSF, etc.</li> </ul> </li> <li>• Diaphoresis</li> <li>• Bowel Sounds – four quadrants</li> <li>• Patient Voice <ul style="list-style-type: none"> <li>- Pre-recorded and custom sounds</li> <li>- Instructor can simulate patient's voice wirelessly</li> </ul> </li> <li>• Instructor Communication <ul style="list-style-type: none"> <li>- Multiple instructors communicate using integrated voice over IP</li> </ul> </li> <li>• Fully articulating pelvis</li> <li>• Leg rotation in all natural directions</li> </ul>	<b>PATIENT MONITOR</b>
<b>BREATHING FEATURES</b> <ul style="list-style-type: none"> <li>• Simulated spontaneous breathing</li> <li>• Bilateral and unilateral chest rise and fall</li> <li>• CO2 exhalation</li> <li>• Normal and abnormal breath sounds <ul style="list-style-type: none"> <li>- 5 anterior auscultation sites</li> <li>- 6 posterior auscultation sites</li> </ul> </li> <li>• Oxygen saturation and waveform</li> </ul>	<b>ENDOVASCULAR PROCEDURES:</b> <ul style="list-style-type: none"> <li>• Access points: <ul style="list-style-type: none"> <li>- Left femoral artery/ vein</li> <li>- Right femoral artery</li> </ul> </li> <li>• AMI</li> <li>• Stroke</li> <li>• Trauma</li> <li>• Interventional surgery</li> <li>• REBOA- Aortic Balloon Occlusion</li> <li>• Ballooning</li> <li>• Stenting</li> <li>• Embolization</li> <li>• Aspiration</li> <li>• Radiation safety</li> </ul>	<b>PHARMACOLOGY</b> <ul style="list-style-type: none"> <li>• Automatic Drug Recognition System identifies drug &amp; dose</li> <li>• Extensive drug formulary</li> <li>• Automatic or programmable physiological responses</li> </ul>	<ul style="list-style-type: none"> <li>• Touch-screen simulated patient monitor provides concise clinical feedback for physiological parameters</li> <li>• The monitor's color screen is configurable and provides multiple simulated parameters, each presenting multi-level alarms</li> <li>• Simulated parameters include ECG (2 traces), SpO2, CO2, ABP, CVP, PAP, PCWP, NIBP, TOF, Cardiac output, temperature (core and peripheral), additional and programmable parameters e.g. ICP</li> <li>• X-Ray Display</li> <li>• 12 Lead ECG</li> <li>• Custom image display</li> <li>• Custom video display</li> <li>• Oxygen saturation and waveform</li> </ul>

## ORDERING INFORMATION

222-02050 SimMan Vascular  
Includes: SimMan 3G Simulator with Endovascular Functionality, Laptop, Keyboard, Mouse with USB, Screen, Clinical Device Kit, HD web camera, Headset/Microphone with USB, SpO2 probe with USB, LLEAP Software License, Mentice Software License.

222-88050 SimMan Vascular 3 year Tech Service  
Includes: On-site Installation Service, 3 year annual Preventive Maintenance On-site, 2 year Extended Warranty. This is a required services for SimMan Vascular.



Visit [Laerdal.com/SimManVascular](http://Laerdal.com/SimManVascular) for a complete list of specifications, parts, accessories and services

