EMERGENCY AND TACTICAL MEDICAL CARE SIMULATION

All products also available online at 3bscientific.com
TACTICAL MEDICAL CARE TRAINING

Tactical Hemorrhage Control Training Manikin
Full-body, remotely-activated simulator designed for point-of-injury, tactical medicine training for law enforcement and first responders. Ultra-realistic and fully mobile, it is ideally suited for training rapid assessment and treatment of trauma injuries in disaster drill and active shooter simulation scenarios.

The Tactical Hemorrhage Control Training Manikin is delivered with:
• 3.8 l concentrated artificial blood (antimicrobial antifungal, antifreeze)
• 2 rechargeable batteries and chargers
• 2 wireless remote controls
• 10 I.O. humeral and 10 I.O. sternal replacement parts
• 2 neck band replacement parts
• Rugged carry case

Features:
+ Rapid Assessment for Tactical Casualty Care
+ Airway Management Training
+ Hemorrhage Control and Tourniquet Application Training

REALISTIC AND STURDY POINT OF INJURY TRAINING MANIKIN FOR TACTICAL EMERGENCY AND COMBAT CASUALTY CARE SIMULATION.

All specifications and product videos online at 3bscientific.com
A SUPER-REALISTIC POINT OF INJURY CASUALTY CARE SIMULATOR FOR TCCC TRAINING

Full body manikin with combat wounds to enhance TCCC training

The TCCS offers military, government forces, medical rescue, and private security a realistic way for combat trauma care training:
- Traumatic battlefield wounds
- Hemorrhage management
- Airway management
- Trauma management of breathing and circulation

TCCC training can get rough. Therefore, this trauma simulator was built to last under the toughest training scenarios:
- Full-body simulator, realistic size and weight (1.93 m and 84 kg) with fully articulating limbs for high threat extraction training
- Simple to operate, fully mobile and remotely controlled for realistic TCCC field training scenarios
- Easy-to-use instructor interface tablet with simulation logs and self-diagnosis
- Remote controlled (up to 48 m): respiratory and heart rate, pneumothorax activation, pulsating bleeding and arterial hemorrhage with 3 liter blood reservoir

TCCS 1 with Gunshot Wounds
1021380
TCCS 2 with Major Vascular Injuries
1021381
TCCS 3 with Traumatic Amputation Injuries
1021382
TCCS 4 with Multiple Traumatic Gunshot Wound and Amputation Injuries
1021383
TCCS 5 with Abdominal Wounds with Evisceration
1021384

Available in different wound configurations, see 3bscientific.com for all specifications and to request a demo.

STANDARD TCCC TRAINING FEATURES:

<table>
<thead>
<tr>
<th>Hemorrhage Management</th>
<th>Airway Management</th>
<th>Breathing and Circulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bleeding control via elevation, pressure points and kneedropping method</td>
<td>Insertion of nasal &amp; oral pharyngeal airways</td>
<td>Bilateral and independent chest excursion</td>
</tr>
<tr>
<td>Apply tourniquets to control massive hemorrhage (CAT, junctional)</td>
<td>Advanced foreign body removal</td>
<td>Midclavicular and midaxillary needle decompression for tension pneumothorax</td>
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<tr>
<td>Effective drop knee technique</td>
<td>Suction of the airway</td>
<td>Humeral and sternal intraosseous infusion</td>
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<tr>
<td>Multiple and independent bleeding sites</td>
<td>Perform intubation (King LT and I-Gel)</td>
<td>Respiratory distress</td>
</tr>
<tr>
<td>Through and through wounds</td>
<td>External ventilation (Bag Valve Mask)</td>
<td>Carotid and radial pulses</td>
</tr>
<tr>
<td>Wound packing for severely bleeding wounds</td>
<td>Cricothyotomy</td>
<td>—</td>
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</table>
Patient Simulation and Mobile Debriefing
Debriefing is one of the most relevant parts of medical simulation training. REALITi is a smart and highly advanced patient simulator that mimics proprietary monitors and defibrillators.

CTGi – Fetal Heart Rate Monitor Simulator
CTGi is an economical, highly advanced and realistic fetal heart rate monitor simulation package. The lightness and simplicity, using just two iPads®, makes the CTGi ideal for in-situ training.

Features of the CTGi Fetal Heart Rate Simulator:
- Realistic function & detail – CTGi allows you to create realistic traces with exceptional detail. Manage maternal vitals, easily add decelerations, accelerations as well as contractions. Pause, rewind and fast forward with a swipe
- Versatile – CTGi can be used in many different teaching modalities, its interface is incredibly realistic with an interactive control iPad® to create traces easily
- Capability – Turn a low fidelity situation into high fidelity simulation. Name, save and replay scenarios and traces for teaching

ALSi – The Advanced Patient Condition Simulation
Using just 2 iPad® tablets, the lightness and simplicity of ALSi makes it ideal for in-situ training. ALSi gives facilitators a great tool for training and students an incredibly realistic platform to learn from. ALSi offers medical simulation as you’ve never seen it before, built off technology you use every day.

Features of ALSi:
- Realistic and reliable – Trainees view the simulated monitor on one iPad® while the instructor supervises, manages and controls the training on the facilitator iPad®
- Portable – Custom designed bag gives the look and feel of a real monitor or defibrillator and can be used anywhere
- Economical and versatile – ALSi provides highly advanced simulation for far less than the cost of traditional systems and is always up to date
- Simply advanced – iSimulate developed ActiveWave as the next step in advanced waveform technology. ActiveWave delivers clearer, crisper and more flexible waveforms than ever before

REALITi Highly Advanced Patient Simulator
REALITi is a modular simulation ecosystem incorporating a patient simulator, CPR feedback and video in a single system. Starting with 2 iPad® tablets, REALITi is a highly advanced patient monitor simulator which mimics proprietary monitors and defibrillators. By adding more modules, a complete in-situ simulator with live video streaming, CPR feedback and simulated patient records can be created.

Main Features of REALITi:
- Mimics real defibrillators and monitors – looks, sounds and functions like the real thing
- Defibrillator screens from Zoll, Corpuls, Philips and many more are included
- Advanced ECG and 12-lead settings
- OSCE & log function
- Ability to build custom scenarios
- REALITi Community
- Unlimited possibilities of waveform combinations (add ectopics, arrhythmias and artifacts to any ECG waveform can be added by the user)
- Realtime feedback with CPR module
- CPR module can be deployed and used in 3 different ways
- Meets AHA requirements
- CPR report for review
- Integrated wireless video with REALITi Camera for detailed debriefing
- REALITi Chart has a complete library of resources to create simulated electronic patient records

Contact us for more information

YOUR CUSTOMIZED SIMULATION SOLUTION!
Please work with our configuration assistance to pick and choose your simulation packages, software features, and hardware.
**RESCUE**

**Rescue Randy - Adult Manikin**
Fully articulated for positioning in widely diversified training environments, made of tough cast vinyl with zinc-plated steel frame for longevity and rugged use.
1.67 m tall, 74 kg
1005703

**Rescue Randy 9000**
Adult rescue manikin made from rugged polyethylene parts that allow for the addition of varying amounts of weight to each of the pieces (water or sand).
1.83 m tall, 30 - 113 kg
1017945

**Flexible Rescue Randy**
For training of confined space rescue scenarios. The waist and head are flexible allowing a wide range of movements. This allows positioning under dashboards and in other extremely tight spots.
1.65 m tall, 27 kg
1017944

**I.A.F.F. Rescue Randy**
Strengthened for Extrication Training. Fully articulated for positioning in widely diversified training environments. Weight distribution according to human weight distribution chart.
1.83 m tall, 84 kg
1019955

**Child Water Rescue Manikin**
3 years old, 9 kg
1005739

**Infant Water Rescue Manikin**
6 - 9 months old, 5.5 kg
1018327

**Newborn Water Rescue Manikin**
3.2 kg
1005699

**CasPeR The CPR Dog**
Dog manikin can be used for emergency training with CPR: proper hand placement for compressions, depth of compressions, airway maintenance, femoral pulse check, and adequate ventilation. Airways are changed quickly and without tools.
1020264

**Pediatric Water Rescue Manikins:**
- Excellent top and bottom water rescue device:
  - Will sink to the bottom when filled with water
  - Have articulating joints
  - Made of durable plastic and rust-resistant steel

**Moulage Sets with pre-configured wound patterns save a lot of time during training preparations.**
More wound patterns online at 3bscientific.com

**Weapons of Mass Destruction Moulage Kit**
Improve medical care training for wounds from Weapons of Mass Destruction or Chemical-Biological-Radiological-Nuclear Explosive attacks.
1021949

**Emergency Medical Treatment (EMT) Moulage**
Wounds can be applied to human and manikin patients for pre-hospital emergency medical care simulation.
1005711

More adult and juvenile manikins with different sizes and weights available at 3bscientific.com
**BASIC LIFE SUPPORT**

NEW!
Quality CPR Training Manikin CPRilly PRO+ monitors up to 10 trainees at a time and complies with new AHA’s 2019 requirements for direct feedback.

**Quality CPR Feedback:**
- Compression depth
- Compression rate
- Chest release
- Jaw thrust and head tilt control
- Hand placement
- Compression fraction

**FREE APP AVAILABLE!**

**Key Training Features:**
- Constant analysis of CPR parameters up to 10 manikins simultaneously
- Quality CPR feedback with debriefing history
- Ventilation with face shield, pocket mask and BVM
- Control of proper airway desobstuction
- AED pads placement training capable
- Simplified student feedback with the CPRilly App

Manikin with Tablet 1022071
Manikin without Tablet 1022237

**Solid manikin for effective training:**
- Made in Germany of extremely durable, latex free material
- Masks and bags can be changed easily without tools
- Runs quietly with efficient power usage and rechargeable battery
- Stable WiFi connection and intuitive App interface
- Dark skin manikin available

**AIRWAY MANAGEMENT**

AirSim® Advance X
The AirSim® Advanced Model features the uniquely constructed AirSim airway designed to provide true, anatomically correct and visually accurate internal features. The addition of a “real-feel” skin covering provides a more realistic bag mask ventilation training experience.

**Features:**
+ Improved neck design allowing for accurate articulation
+ Anatomically accurate nasal passage
+ Inflatable tongue to increase difficulty of airway
+ Option to include “breakout teeth” to simulate the effects of bad practice in laryngoscopy

At 3bscientific.com you will find a wide range of airway management and CPR trainers for newborn, pediatric, and adult patients.

**Adult Airway Management Trainer**
The detailed anatomy provides a clear picture for intubation training: sculpted alveolar sac, bronchial tree, blood vessel structures of the cross-sectioned and exposed flexible lungs, interior main bronchus and oral/nasal pharyngeal spaces. Combine these with an airway complicated by breakout teeth, tongue edema, and laryngospasm, and this airway trainer really stands out. The stomach swells with oesophageal intubation, or excessive pressure with the BVM during rescue breathing. It also has the capability of vomiting.

1005774

**AirSim® Child Combo Bronchi X**
- Wraparound replaceable neck skin rotates for up to 20 incisions
- Easy identification of sternal notch, tracheal rings and cricoid and laryngeal cartilages
- Inflatable tongue with life-like texture can simulate edema
- Replaceable lung bags inflate with successful ventilation
- Optional subcutaneous fat tissue demonstrates more difficult tracheostomy and cricothyroidotomy procedures

1021903
SMART STAT Basic with iPad**
This high-end patient simulator takes ALS training into the student’s environment. Instructors can evaluate student knowledge, skill levels, and critical thinking abilities by utilizing the applications via the included iPad®. Responsive controls and dynamic scenarios are easy to manage with PDF formatted reports. This simulator can function in the lab and in the field for ascertaining diagnostic ability. Student performance records can be transferred to a computer, and chronological scenario event logs can be printed. SMART STAT has an on-board air compressor, includes a free app, and storage for students’ performances.

Key training features:
- Advanced airway management
- ECG
- Pacing emergent lung sounds (anterior and posterior)
- Emergent heart sounds
- BP arm
- Pulse points
- Bilateral chest decompression and tube insertion
- Virtual capnography and oximetry

**iPad, iPod, iPhone is a trademark of Apple, Inc., registered in the U.S. and other countries.

NEW!
The Bionic Hybrid Auscultation Simulator
When worn, the suit simulates physiological conditions to test diagnostic and procedural skills.

SAM 3G® Student Auscultation Manikin
Using SAM 3G® teaching and learning auscultation becomes even more versatile and economic. Delivered with a portable SAM 3G® male auscultation torso, a DELL laptop with pre-installed software, a digital copy of SAM’s Lesson Guide, a stethoscope and user’s manual. Free access to SAM Online for one year with each SAM 3G® purchase!

Life/form® Pericardiocentesis Simulator
The Life/Form Pericardiocentesis Simulator is designed to teach the skills needed for this difficult procedure correctly. The simulator has a pressurized tension pneumothorax site and a site for the surgical placement of functional chest tube. Pericardiocentesis may be performed in the left subxiphoid space and in the left fifth intercostal space.

More ATLS task trainers and manikins online at 3bscientific.com
INJECTION TRAINING

3B Scientific® Upper Leg I.M. Injection Trainer
Practice proper I.M. injection techniques. Strap it onto the upper leg. Operates on AA batteries.
- Both audio and visual feedback
- Use for training and performance evaluation
- Includes all important anatomical palpable landmarks
- Life-like silicone skin is extremely durable, can quickly be exchanged
- Robust and easy to clean
1000511

3B Scientific® I.M. Injection Pad
A simple intramuscular injection pad trainer that simulates muscle tissue.
- Injection made to a depth of 50 mm
- Life-like skin
- Absorbs fluid
1005190

3B Scientific® I.M. Injection Simulator
Compact I.M. trainer:
- Practice intramuscular injection with fluid up to a depth of 50 mm
- Quick-change skin pads that can be pierced multiple times
- Easy to clean and dry
1010008

SUTURE TRAINING

SMASH Advanced Patient Training Arm
Training possibilities:
- S.c. injection on volar forearm and lateral upper arm
- I.m. injection on upper arm
- Suture and incision on both upper arm and forearm
- Haemodialysis on the forearm
- IV and blood draw exercises, AV anastomosis, and placement of AV grafts
- Incision and suturing exercise on multi-layered inserts (skin, subcutaneous tissue, muscle, radial artery, and radial vein)
- Surgical & arterial & venous stick exercises
- Collapsed or bulging vessels simulated by varying vessel palpability
1019645

3B Scientific® Suture Training Arm
Movable fingers for suture training of challenging wounds between fingers:
- Skin and subcutaneous tissue differentiated for realistic suture experience
- Wounds can be inflicted by instructor anywhere on the training arm
- For surgical staples procedure
1020904

3B Scientific® Skin Suture Trainer
Another great low cost way to practice surgical opening and closing techniques.
- Economical reversible pad
- Designed to make complex incisions such as flap and dog turn suturing more realistic
- A sub-dermal layer is present to make secure intradermal sutures
- Base has suction feet to enable slip free use
1005134
ULTRA-REALISTIC HEMORRHAGE CONTROL TRAINING MANIKIN.

Find all details about the Tactical Hemorrhage Control Training Manikin online at 3bscientific.com and on page 3 in this booklet. Please contact us to schedule a demo session.