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

1021644

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

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 kneeddropping 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>
</tr>
<tr>
<td>Effective drop knee technique</td>
<td>Suction of the airway</td>
<td>Humeral and sternal intraosseous infusion</td>
</tr>
<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>
</tr>
</tbody>
</table>

Remotely controlled for realistic in-the-field scenarios, up to 48 m distance

Needle decompression, midaxillary and midclavicular

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
MOBILE DEBRIEFING & PATIENT SIMULATION

Patient-Simulation Systems qube³ & qube¹⁵
These innovative patient-simulation systems enable you to run realistic trainings with high quality results thanks to the realistic design and the real-life functionalities.

Mobile Debriefing System qubeAVpro
Debriefing is one of the most relevant parts of medical simulation training. The qubeAVpro is a mobile debriefing system with audio/video recording for simulation training. With the qubeAVpro debriefing system you will be able to support your students throughout the simulation and run the detailed debriefing after the training.

- 3 camera channels + 1 channel for seamless integration of the qube³ and qube¹⁵ patient simulation systems
- Student view - live and on demand
- Mobility of the system makes the training location independent (set up training in the classroom, on the ward, in an ambulance or outside)
- Video recording of the training allows analysis of the training scenario from all angles
- Instructor can give instructions via stationary microphone at any time
- Define yourself multiple marker-sets throughout the training to quickly navigate back to important scenes

Mobile Debriefing System qubeAVpro 1022137

The qube³ and qube¹⁵ patient-simulation systems consist of:
- iPad** Pro ECG-monitor
- Instructor-controller for iPad**
- Assessment-application for iPod** and iPhone**
- Case including a set of cable
**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

**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

<table>
<thead>
<tr>
<th>Manikin Type</th>
<th>Age Range</th>
<th>Weight</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Water Rescue Manikin</td>
<td>3 years</td>
<td>9 kg</td>
<td>1005739</td>
</tr>
<tr>
<td>Infant Water Rescue Manikin</td>
<td>6 - 9 months</td>
<td>5.5 kg</td>
<td>1018327</td>
</tr>
<tr>
<td>Newborn Water Rescue Manikin</td>
<td></td>
<td>3.2 kg</td>
<td>1005699</td>
</tr>
</tbody>
</table>

**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 CPRLilly 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 CPRLilly App

**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

**Manikin with Tablet 1022071**
**Manikin without Tablet 1022237**

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**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. **1015527**

**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.

**NEW!**
**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**

**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**

**Monitor up to 10 manikins at a time**

**Instructor debriefs trainee about CPR performance**
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

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!

Features:
- Can be used with any stethoscope
- Largest library of sound and videos for life-like simulation
- Create and save own case videos
- Lightweight and portable

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.

Moore ATLS task trainers and manikins online at 3bscientific.com

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

100511

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
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.