MEDICAL SIMULATION
3B Scientific | iSimulate | Cardionics | Operative Experience

Find all products online at 3bscientific.com
Our mission at 3B Scientific is to “Advance Medical Education”. To reach this goal for our customers, innovation is at the core of everything we do in product development across the entire 3B Scientific group of companies. In the last couple of years, we have created and added many new simulation products and upgraded our anatomy line with the free software 3B SMART ANATOMY in order to provide you with new choices in this rapidly evolving marketplace.

In 2019, Cardionics – the leaders in auscultation – joined the 3B Scientific group, followed by iSimulate in 2020. Together with them and our partner Operative Experience, we are in a unique position to offer our customers an extensive range of high quality medical education tools for any kind of specialty – around the globe.

Closely related to our own product innovation, we work very diligently to understand the trends in the market in order to identify partner’s products to include in our catalog. Our role has always been to be your “one stop shop” for medical education products and innovation both with our own products from other manufacturers we will continue to be at the heart of what we deliver to you each year.

Have a look at the selection of products in this brochure and remember to visit us online for our entire range of medical simulators, task trainers and models.

We are here to help, please contact us for any questions and inquiries you may have.

Your 3B Scientific Team
THE INTERNATIONAL 3B SCIENTIFIC GROUP KEEPS ON GROWING!

Apart from developing new and innovative products to cater to medical educators, the 3B Scientific Group has built strategic partnerships to expand the product lines for high-fidelity simulators. Being on a mission to globally advance the delivery of medical and healthcare education, we ensure to meet the increasing demand for more realism and durability in medical simulators and skill trainers.

About 3B Scientific

3B Scientific was founded in 1948 in Hamburg, Germany and has grown to be one of the world’s leading manufacturers of Medical and Science Education solutions. The product portfolio covers a complete and comprehensive range of equipment for simulation and skill training, anatomy, healthcare and patient education. The brand name 3B Scientific® stands for best quality, best value, and best service.

About iSimulate

iSimulate was founded by Peter McKie and Anthony Lewis in 2011 with the mission of providing effective, reliable and realistic simulation tools. The solutions they developed together have revolutionized healthcare simulation training worldwide by offering smart and cost effective solutions for medical emergency simulation.

iSimulate is part of the 3B Scientific Group since 2020.

About Cardionics

Cardionics was founded in 1969 with the purpose to improve medical education in auscultation and the advancement of cardiac and pulmonary education. Since its founding, Cardionics has been an innovator in auscultation simulators and was the first to develop a heart sound simulator to assist students in learning to identify and differentiate normal and abnormal cardiac and pulmonary sounds.

Cardionics is part of the 3B Scientific Group since 2019.

About Operative Experience

The mission of Operative Experience is to revolutionize surgical and medical team training. Using medical simulators with unprecedented anatomical and surgical fidelity within a rigorous experiential instructional paradigm, Operative Experience will reduce training costs while increasing training effectiveness and retention.

Operative Experience is a strategic partner of the 3B Scientific Group since 2016.
NIKKI THE NURSING MANIKIN WITH AUSCULTATION

Nikki the Nursing Manikin with Auscultation offers 11 anterior and 4 posterior auscultation sites with 42 high quality sounds powered by Cardionics – the Leader in Auscultation Simulation. The manikin was developed specifically for scenario-based simulation to improve competency in patient care and advanced nursing skills.

Nikki the Nursing Manikin simulates an adult, life-size patient and comes with the training stethoscope NursingScope powered by Cardionics. NursingScope is an electronic simulation-training stethoscope created for auscultation training purposes or objective structured clinical examinations (OSCE). Meets the OBRA requirements of Nurse Aide Training and Competency Evaluation Programs (NATCEP).

BOWEL CARE & ENEMA TRAINER P16

High quality, life-size bowel care trainer by 3B Scientific for realistic enema and bowel care management and interventions training. Improve patient care training in order to reduce the risk of complications associated with management of lower bowel dysfunction and ensure patient safety.

Procedures and features:

- Enema administration: cleansing, oil-retention, return-flow, medicated enemas
- Suppositories and medication administration
- Digital rectal examination (DRE), stimulation (DRS), and removal of faeces (DRF)
- Supports the insertion of CH16 to CH40 catheters and balloon rectal tubes
- Latex-free, the different Digital Rectal Inserts are made of SKInlike™ sturdy silicone to simulate human skin and tissue haptic during DRE and DRS
- Contains two 3D (three dimensional) anatomical didactic models of hemorrhoids to facilitate the explanation of complication or contraindication
- Simulates the buttock of a patient with femoral stumps, anus and bowel in pre-positioned left lateral recumbent position
HEMORRHAGE CONTROL ARM TRAINER P102

Improve pre-hospital patient care training with this affordable Hemorrhage Control Arm Trainer P102 by 3B Scientific. It is the perfect solution for realistic training of bleeding control and management of traumatic injuries on the arm. Trainees will gain confidence in managing difficult bleeding using tourniquets and wound packing.

- The arm is equipped with three different wounds that bleed independently:
  - Deep laceration or stab wound (5 cm)
  - Large caliber gunshot wound through and through (GSW)
  - Junctional wound in the shoulder area
- Instructor controlled bleeding: the bleeding of each wound is controlled with a manual blood pump system simulating venous or arterial pulsatile blood hemorrhage
- Direct feedback: the bleeding will stop (mechanical occlusion of blood vessels) when tourniquet has been correctly applied (placement and closing)
- Latex-free skin made of high quality SKINlike™ sturdy silicone to simulate human skin and tissue haptics and features bony landmarks and palpable vessel damaged in the GSW
- Designed for field use: sturdy construction requires no batteries or external power and can be worn by a Standardized Patient or manikin

Features and hemorrhage control procedures:
- Wound patterns: deep laceration (around 4 cm deep), gunshot wound through and through (GSW) and amputation in knee region
- Limb tourniquet application with direct feedback: Tourniquets can be placed “high and tight” at the proximal end of the thigh as well as 5-8 cm above the wounds. If the tourniquet is applied correctly, the bleeding stops automatically by mechanical occlusion of the blood vessels
- Wound packing: A deep lying lacerated tube can be palpated manually as the injured blood vessel. The junctional and the gunshot wound can be packed with gauze
- Hemostatic device application: The gunshot wounds are compatible for an application of the XSTAT® hemostatic device
- Stump and large area wound dressing

HEMORRHAGE CONTROL LEG TRAINER P103

Hemorrhage Control Training at its best with this Hemorrhage Control Leg Trainer P103, your affordable and easy solution for realistic training of bleeding control and management of traumatic injuries on the thigh. Train how to manage difficult bleedings using tourniquets, wound packing and train amputation management skills. This leg trainer P103 is equipped with three different wound patterns and is available in light and dark skin tone.

Features and hemorrhage control procedures:
- Wound patterns: deep laceration (around 4 cm deep), gunshot wound through and through (GSW) and amputation in knee region
- Limb tourniquet application with direct feedback: Tourniquets can be placed “high and tight” at the proximal end of the thigh as well as 5-8 cm above the wounds. If the tourniquet is applied correctly, the bleeding stops automatically by mechanical occlusion of the blood vessels
- Wound packing: A deep lying lacerated tube can be palpated manually as the injured blood vessel. The junctional and the gunshot wound can be packed with gauze
- Hemostatic device application: The gunshot wounds are compatible for an application of the XSTAT® hemostatic device
- Stump and large area wound dressing
iSimulate was founded by Peter Micke and Anthony Lewis in 2011 with the mission of providing effective, reliable and realistic simulation tools. The solution they developed together has revolutionized healthcare simulation training worldwide. In January 2020, iSimulate joined forces with the 3B Scientific Group. Today, a significant emphasis for strong growth and the development of the product pipeline lies in the active collaboration from and partnership with the experts from 3B Scientific and Cardionics.
REALITi 360 ECOSYSTEM

SIMULATIONS COME TO LIFE WITH THE REALITi 360 ECOSYSTEM:

- Mimics real defibrillators, monitors and ventilators
- Fosters engaging assessment for students and distance based learning
- Includes a built in Training Management System to access all your simulation data
- Has a built in radiology and 12 lead ECG library
- Turns any training into a high quality scenario simulation
- Create Scenarios in minutes

THE REALITi 360 ECOSYSTEM – SELECT YOURS TODAY – NO HIDDEN FEES

REALITi 360 simulates a wide variety of premium branded patient monitor, defibrillator and ventilator screens, providing added realism to your in-situ training.

Simulated screens work with the REALITi 360 vital sign monitor and defibrillator software. They are designed to be used with the patient monitor simulation systems of REALITi Plus and REALITi Pro. Instructors can easily add training scenarios or downloaded new scenarios from the REALITi 360 Community platform.

A few examples of the simulated premium screens from leading manufacturers include:

<table>
<thead>
<tr>
<th>Zoll® Propaq® MD</th>
<th>DEFIGARD Touch 7</th>
</tr>
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<tbody>
<tr>
<td>8000978</td>
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<table>
<thead>
<tr>
<th>Connex VSM 6000</th>
<th>Medtronic Capnostream™ 35</th>
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<table>
<thead>
<tr>
<th>ZOLL EMV®</th>
<th>GE CARESCAPE® B40</th>
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<tr>
<td>8001016</td>
<td>8000969</td>
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FIND THE REALITi 360 KIT TO SUPPORT YOUR SPECIFIC TRAINING REQUIREMENTS:

<table>
<thead>
<tr>
<th>Item Number</th>
<th>REALITi Go</th>
<th>REALITi Plus</th>
<th>REALITi Pro</th>
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<tbody>
<tr>
<td>iOS Version</td>
<td>11 or greater</td>
<td>11 or greater</td>
<td>11 or greater</td>
</tr>
<tr>
<td>Universal (Generic) Screens – Monitors, Defibrillator, AED, Ventilator</td>
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<td>6</td>
<td>6</td>
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<tr>
<td>Premium Simulated Screens included (Zoll, Philips, Schiller, etc.)</td>
<td>–</td>
<td>1</td>
<td>5</td>
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<tr>
<td>Optional Premium Screens to choose from</td>
<td>17+</td>
<td>17+</td>
<td>17+</td>
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<tr>
<td>Patient Monitor Tablet (included)</td>
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<td>12.9&quot;</td>
<td>12.9&quot;</td>
</tr>
<tr>
<td>Controller Tablet (included)</td>
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<td>9.7&quot; or 10.2&quot;</td>
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<tr>
<td>1 WiFi Router</td>
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<td>1 USB Powerbank</td>
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<td>1 Simulation bag and Accessory set*</td>
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<td>ECG Waveforms – Rate Controllable</td>
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<td>SpO2 Waveforms</td>
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<td>Invasive Blood Pressure Waveforms</td>
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<tr>
<td>Critical Care Waveforms</td>
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<td>ICP, CVP, PAP**</td>
<td>ICP, CVP, PAP**</td>
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<td>Video Debriefing Module</td>
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<tr>
<td>Patient Chart Tablet</td>
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</tr>
<tr>
<td>Remote Control Module</td>
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</tr>
</tbody>
</table>

* Accessory set: 3 leadwires ECG cable snap, 7 leadwires ECG cable snap, 10 leads ECG trunk cable, SpO2 sensor, Adult NIBP cuff, Defibrillator/AED connector, Disposable adult ECG electrodes, BiCO2 sensor gas drier tube

** Available on GE CareScape, Philips MX800, Corpruls 3 and 3T. Coming soon to Zoll X and Propaq MD.

REALITi GO
REALITi Go – Start your simulation training with the basics
Complete with 6 universal screens, instructors have a set-up to prepare course participants effectively and realistically for their assignments in the preclinical and clinical area.

1022862

REALITi PLUS
REALITi Plus – Improve your simulation activities
Ready to introduce one simulated premium screen to your training? REALITi Plus is the perfect choice for introducing medical students and EMT’s to the operation and functionality of a monitor or defibrillator in the field.

1022815

REALITi PRO
REALITi Pro – Enhance your simulation experience
With 5 premium screens, REALITi Pro offers a highly advanced and portable solution for medical instructors. Fully equipped hardware and software kit for facilitating detailed debriefings, video streaming and evaluations of training courses. Included is the CPR module providing real-time feedback on rate, depth and recoil.

1022816
The Tactical Casualty Care Simulation Suite is a suite of life-like and anatomically accurate, high-fidelity, male and female simulators for comprehensive TCCC (Tactical Combat Casualty Care) and medical provider level care training. Featuring lifelike tissue and high anatomic fidelity, the TCCS (Tactical Casualty Care Simulators) and TCCS Plus lines of simulators are highly ruggedized, water-resistant and fully mobile. With over 10+ hours of battery life they are ideally suited for challenging, real-world, indoor and outdoor environments.

Technical Specifications:
- Full-body wireless manikin
- Water resistant
- Male: 192 × 70 × 30 cm, 84 kg
  Female: 165 × 60 × 28 cm, 59 kg
  (Simulator weight can vary +/- 5%)
- Fully-articulated limbs
- Internal batteries – dual pack
- Li-Ion 18.5V, 6400 mAh
- 6A rate with built in thermal protection
- UN38.3 certified
- Run time: 10+ hours
- Electrical Input: 110 – 240v
- Two-way communication system
- Line of sight two-way communications headset
- Range up to 91 m
- Instructor Control Interface tablet
- Patient Monitor tablet
- Instructor Control Interface software and license (iOS, Android, Windows 10, Mac OS 10.12 or greater)
- Rugged carry case
- 3.7 liters concentrated antimicrobial, antifungal, antifreeze simulated blood

Example of a wound configuration, many more options at 3bscientific.com

Wound Description | Bleeding Type | Bleeding Type
--- | --- | ---
Right side of the face | Yes Venous | Venous bleeding
Left back side | No – | Open fracture
Right side of the chest | Yes Venous | Arterial bleeding
Left inguinal wound | Yes Arterial | |
Right tibial / fibula open fracture | Yes Arterial | |

VISIT 3BSCIENTIFIC.COM FOR THE COMPLETE RANGE OF TCCC TRAINING MANIKINS
TACTICAL CASUALTY CARE SIMULATOR (TCCS)

Comprehensive Tactical Combat Casualty Care Preparedness

- Ruggedized, soldier-form simulators for comprehensive TCCC preparation, available in different standard wound pattern configurations that simulate IED, gunshot and blunt trauma injuries
- Simple to operate, fully-mobile and remotely operable, the TCCS provide the ability to create realistic and challenging training scenarios in any simulated battlefield or active shooter environment
- Available as male and female soldier simulators

TACTICAL CASUALTY CARE SIMULATOR FEMALE (TCCSF)

The World’s First Life-Identical Female Tactical Simulator for TCCC Training

TACTICAL CASUALTY CARE SIMULATOR PLUS (TCCS PLUS)

A High-Fidelity, Clinically-Responsive Tactical Trauma Simulator for Prolonged Field Care Training

- High-Fidelity Medical Provider Level Prolonged Field Care for the Female Combatant

About the TCCS Plus

TCCS Plus is a military grade, high-fidelity tactical trauma simulator for both medical provider level prolonged field care training and comprehensive all-combatant TCCC training, conforming to the Joint Trauma System (JTS), Center of Excellence and Deployment Medicine training standards.

Medical Providers

- At the Medical Provider level, the TCCS Plus is a clinically responsive simulator designed to support physiologically-based prolonged field care training, including hemorrhage control, advanced airway management, closed head trauma identification, cardiac compromise, advanced respiratory disorders, multiple IV sites and advanced monitoring.

TCCC Training

- TCCS Plus also provides comprehensive TCCC training capability, including remote-activated breathing and pulsating bleeding, emergency airway, humeral and sternal intraosseous, oropharyngeal and nasopharyngeal airway, wound packing, open fracture, midclavicular and anterior axillary needle thoracentesis, tourniquet application and two-way communications.

CONTACT US TO SCHEDULE A DEMO
THE ECONOMICAL AND RELIABLE CPR TRAINING MANIKIN NOW COMES WITH DIRECT FEEDBACK

BASICBILLY+
BASIC LIFE SUPPORT SIMULATOR

The manikin BASICBilly+ Basic Life Support (BLS) and CPR manikin now comes with a direct CPR feedback Upgrade Kit which enables students and instructors to effectively train CPR with the free, accurate and user friendly mobile apps powered by heartisense®.

The CPR apps provide feedback for:
- Compression (depth, recoil, and rate)
- Breath (volume)
- Hands-off time in real-time
- Feedback and evaluation meet the standard of the latest guidelines of the American Heart Association (AHA) and the European Resuscitation Council (ERC).

BASICBilly+ Upgrade Kit
Equip your older versions of the BASICBilly manikin with sensors for CPR Training with Direct Feedback 1022626

Now smarter with CPR Feedback app

3B SCIENTIFIC® QUALITY CPR TRAINING MANIKIN CPRILLY PRO+ MONITORS UP TO 10 TRAINEES AT A TIME AND COMPLIES WITH AHA’S REQUIREMENTS FOR DIRECT FEEDBACK

CPRILLY PRO+

Measure, monitor and analyze the CPR performance of up to 10 trainees at the same time. CPRILly PRO+ helps instructors increase effectiveness and efficiency in their CPR courses. Simply connect the manikins with the CPRILly App on a tablet to follow each trainee’s individual CPR performance and deliver objective feedback. The student view of the App enables trainees to see and monitor their own performance in real-time.

LED lights located directly on manikin’s neck provide direct CPR feedback and indicate correct compression parameters (depth, release and rate).

Quality CPR Feedback:
- Compression depth, rate, and fraction
- Chest release
- Jaw thrust and head tilt control
- Correct hand placement
- Appropriate ventilation volume

CPR Training Manikin Features:
- Made in Germany of extremely durable, latex-free material
- Face masks and lungs bags can be changed without tools
- Easy to clean with hygienic airway system
- Runs quietly and with efficient power usage

Light Skin Dark Skin
- 8000951 8000953

3B Scientific

Head tilt and jaw thrust indicator
Palpable carotid pulse
Lights indicate correct CPR performance

Light Skin Dark Skin
- 1022071 1017775
GET READY BEFORE YOUR PATIENTS ARRIVE

Train patient care skills on realistic simulators to get your team ready. Use simulation-based scenarios and enable your trainees to gain experience and confidence in basic to advanced skills they will need to master every day in their professional life.

3B Scientific, iSimulate and Cardionics offer a complete suite of simulators and task trainers that will help you elevate your training to the next level of realism.
BUILD AND EVALUATE ADVANCED PATIENT CARE AND NURSE AID COMPETENCIES WITH SCENARIO-BASED SIMULATION TRAINING!

PATIENT CARE MANIKIN PRO P10/1

This Patient Care Training Manikin is a must-have and simulates an adult, life-size patient with interchangeable genitals. It can be positioned like a real patient with natural movement of the arms, legs, and joints. Latex-free, made of durable, unbreakable, and water-resistant plastics for longevity in the everyday training use. Meets the OBRA requirements of Nurse Aide Training and Competency Evaluation Programs (NATCEP).

Train and evaluate clinical nursing and patient care skills with this dependable manikin:

- Patient and personal care like bedside care, hygiene, bandaging, wound care, transfer skills and many more
- Medical care like prevention of bedsores, ventilation, tracheostomy care, injections and many more
- Clinical skills like catheterization, enema administration, gastric lavage or irrigation of bladder

DECUBITUS TRAINER P15

Realistic and latex-free simulator to train wound care, classification, staging and assessment skills of pressure ulcers.

Includes the following, realistically simulated stages of Decubitus:

- Decubitus Stage I (greater trochanter): 6 x 3 cm
- Decubitus Stage II (buttocks): 7 x 6 cm
- Decubitus Stage III (buttocks): 6.5 x 7.5 cm
- Decubitus Stage IV (greater trochanter): 10 x 4.5 cm

DIABETIC FOOT TREATMENT TRAINER P14

The after-effects of diabetes mellitus can result in defects and pressure points in the foot area. In this skill trainer, a gangrenous alteration on the big toe of the right foot has already spread from the back of the foot to the metatarsal.

- A mal perforans (trophic ulcer) is visible on the sole of the foot (plantar)
- A stage III pressure ulcer is depicted in the heel area
- A complete skin layer is lost and the subcutaneous tissue is damaged up to necrosis
SIMSHIRT® SYSTEM
AUSCULTATION SIMULATOR

The Cardionics SimShirt® offers a basic version with all features of the suit, except ECG, carotid pulse and the possibility to use with a blood pressure cuff. Includes SimScope™ Wi-Fi and a tablet. Reusable, washable (30°C) and available in different sizes.

Size XL     1022828
Size XXL     1022829

BIONIC HYBRID AUSCULTATION SIMULATORTM (BHS)

All-in-one solution for standardized patient scenarios as well as manikin-based practice. Bionic Hybrid Simulator™ and SimBP™ Simulator for Blood Pressure by Cardionics can be worn to simulate physiological conditions to test diagnostic and procedural skills. They are controlled wirelessly with easy-to-use software and offer the instructor access to the large sound library by Cardionics. Pre-recorded ques are remotely activated from the SimScope™ software and played into the ear buds.

Additional Features:
• Includes SimBP™, 5-wire EKG connections, carotid and radial pulses as well as auscultation via the SimScope™ stethoscope
• 36 auscultation sounds available in the SimScope™ library: 13 heart, 11 lung, 4 bowel and 8 other sounds
• Instructors can adjust the scenarios to fit many conditions
• Capable of recreating many simulated medical situations to supplement almost any curriculum
• Enhances the exam performance by responding in real time to diagnosis and treatment
• Reusable and washable (30°C), available in different sizes
• Delivered with easy to transport hard carrying case

Size XL     1022275
Size XXL     1022278

AURIS SIMULATION STETHOSCOPE FOR AUSCULTATION TRAINING BY iSIMULATE

This simulation stethoscope is connected wirelessly with a mobile device and controlled via the AURIS app. The main menu allows you to create, change and save scenarios, as well as to manage the stethoscope. The AURIS app is available in your App store for iPhone®, iPad®, and iPod® touch.

• Realistic stethoscope and real sounds Heart, lung, bowel and bruit sounds all included
• The student only hears sounds when the stethoscope is placed on a body
• Realistic look and sound
• 22 heart and 13 lung sounds
• Bruit and bowel sounds
• Custom scenarios can easily be added

1022744
SAM ONLINE® AUSCULTATION TRAINING PLATFORM

SAM Online® is an interactive online auscultation training platform that gives students and instructors access to an extensive simulated sounds library, lesson guides for over 60 conditions and tools to chart the learning progress. The comprehensive sound library and the instructor aid make SAM Online® suitable for every level of auscultation training.

The institutional license to SAM Online® Auscultation Training System includes:

- 1 admin license
- 5 teacher licenses
- 200 student licenses

SAM BASIC®

Adult Auscultation Trainer with SimScope® Training Stethoscope

The SAM Basic® trainer engages the technology of the SimScope® stethoscope to simulate adult heart, lung, and bowel sounds utilizing a large sounds library. Using the provided SimScope® stethoscope, users are able to access a large variety of pathological conditions in order to customize scenarios.

- It is lightweight & portable
- It utilizes the extensive Cardionics proprietary heart, lung, bowel and bruit sounds library
- Students can listen at anatomically correct auscultation sites
- A customized library is available to fit specific scenarios and programs (contact us to find out more)
- The SimScope® Wi-Fi allows for remote selection of sound scenarios
- Cardionics auscultation trainers now include a COVID-19 lung sound

SAM II®

Student Auscultation Manikin

This Student Auscultation Manikin is an innovation in teaching and learning heart, lung & bowel sounds. While SAM II® is used in many simulation centers, it is also easily moved into a classroom or auditorium for group instruction. The computer software interface is easily projected into any smart classroom. The software includes phonocardiograms, correct anatomical locations, and written lessons for each sound.

- It is lightweight & portable
- It has the largest library of sounds (24 sounds) & videos (36 videos altogether)
- It has the complete Lesson Guide
- It can be used with any stethoscope
- It has a palpable carotid pulse
- Users can setup password protected lectures for student assessment
- Includes a COVID-19 lung sound

SAM 3G®

Student Auscultation Manikin with Real and Simulated Sounds

SAM 3G® Trainer can be used with any stethoscope available and offers the largest Real Sound Library, Case Videos, Echo Cardiogram Videos and ECG Waveforms for students to master identification of various heart, lung and bowel sounds.

- Largest library of sounds and videos
- Can be used with any stethoscope
- Palpable carotid pulse
- Lightweight and portable

SAM ONLINE®

AUSCULTATION TRAINING AT ANY TIME AND WHEREVER YOU ARE

FREE ACCESS TO SAM ONLINE® FOR ONE YEAR WITH EVERY SAM 3G® PURCHASE!

Light Skin   1020097
Dark Skin   1022474

Light Skin   1020095
Dark Skin   1022476

Light Skin   1021554
Dark Skin   1022396

One year license     8000918
Using this high quality simulator, students learn how to care correctly for their patients’ wounds and can practice a wide range of dressing and bandaging techniques. The life-like skin reacts realistically to adhesives and bandages, so students can practice in conditions as close to reality as possible. Given the flexible structure of the material, students can practice putting on and changing bandages and dressings in realistic conditions.

13 wounds and drain systems resulting from surgical procedures and injuries are represented realistically on the torso with already applied wound closures (staples and sutures).

3B SCIENTIFIC® SUTURE TRAINING ARM P101

The 3B Scientific® Suture Training Arm offers the possibility for suture training that is a lot more complex than with regular suture pads. Additionally, each wound can be sutured several times, making this trainer very economic.

- 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

APPLY THE WOUND ANYWHERE ON THIS ARM AND PRACTICE SUTURING HUNDREDS OF TIMES!
CATHETERIZATION SIMULATOR P93 PRO, NOW WITH SPC

Direct Learning:
- The transparent bladder makes it possible to check whether the catheter has been correctly positioned
- If catheterization has been carried out correctly, fluid will flow accordingly
- The PRO version is supplied with an anatomically realistic lower body incl. removable abdominal wall and (already punctured) puncture site

Features:
- Pliable foreskin and labia
- Complete disassembly in seconds for perfect cleaning
- Male version: 3 urethra narrowings positions

CATHETERIZATION SIMULATOR BASIC, male
- Male catheterization with realistic resistance
- Soft and movable foreskin
- Liquid outflow if catheterization is successfully carried out

CATHETERIZATION SIMULATOR BASIC, female
- Female catheterization with realistic resistance
- Soft and movable labia
- Liquid outflow if catheterization is successfully carried out

The pro version can be used to practice suprapubic catheter exchange and care.
I.M. INJECTION SIMULATORS WITH DIRECT FEEDBACK

INTRAMUSCULAR (I.M.) INJECTION SIMULATOR

These high-quality I.M. simulators are the ideal way to teach, learn and improve proper I.M. injection techniques. Strap it onto the upper arm, the buttocks or the upper leg to locate all necessary intramuscular injection sites or just place them on a desk. Operates on AA batteries.

• With audio-visual feedback (correct/incorrect injection, bone contact, wrong location)
• Includes all important anatomical palpable landmarks
• Life-like silicone skin is extremely durable and can quickly be exchanged
• Robust and easy to clean

INTRAMUSCULAR INJECTION SIMULATOR – UPPER ARM P55/1

Represents a right upper arm with all important anatomical palpable landmarks such as acromion and humerus.

1009840

1000511 1000514

INTRAMUSCULAR INJECTION SIMULATOR – UPPER LEG P56

This reproduction of a right upper leg realistically displays all of the important anatomical, palpable landmarks such as patella and greater trochanter.

1009840

INTRAMUSCULAR INJECTION SIMULATOR – BUTTOCK P57

Model of a right buttock with all important anatomical landmarks for intramuscular injections like iliac crest, anterior superior iliac spine and greater trochanter.

1009840

THE AFFORDABLE TASK TRAINER FOR I.V. INJECTION TRAINING

3B SCIENTIFIC® I.M. INJECTION SIMULATOR, BASIC P54

The basic version for practicing intramuscular injections with fluid up to a depth of 50 mm right from the beginning. Enables students to practice carrying out intramuscular injections cost-effectively and to repeat the procedure again and again.

• Practice intramuscular injection repeatedly
• Quick-change skin pads that can be pierced multiple times
• Easy to clean and dry

1010008

PERFECT VOLUNTEER TO PRACTICE I.V. INJECTION

I.V. INJECTION ARM P50/1

This injection arm made of 3B Scientific® SKINlike™ silicone allows realistic, hands-on training to develop competence in medical staff. This material is of highest quality, stain resistant and easy-to-clean.

• Ideal for practicing Intravenous injections on the arm
• Correct puncture of peripheral veins for blood sampling (basilar vein, cephalic vein, median cubital vein, dorsal venous rete of hand)
• Positioning of a butterfly catheter
• Includes a stand, 250 ml artificial blood concentrate, 2 replacement tubing systems, infusion bottle, syringe and deluxe storage

Light Skin 1021418
Dark Skin (Available from August) 1023311
3B SCIENTIFIC®
SONOtrain™ ULTRASOUND TRAINER

The material of the SONOtrain™ trainer simulates the feel of real soft tissue for carrying out palpations and injections and shows realistic texture and echogenicity on ultrasound images. The SONOtrain™ trainer is an excellent teaching tool for basic training and for improving dexterity and hand-eye coordination skills.

- Each individual unit is completely self-contained and can be used out of the box
- Units are stackable to save space
- Self-sealing for repeated use and therefore cost effective
- Replacement blocks and all accessories are available separately
- The 3B Scientific® SONOtrain™ series has been designed and developed in Germany

ECONOMIC ULTRASOUND TRAINING SET FOR MEDICAL SKILLS LABS

SONOtrain™ VEIN MODEL

Ultrasound block with three blood vessels with diameters of 4, 8 and 15 mm with adjustable fluid flow. Punctures and injections possible, and self-sealing injection channels.

SONOtrain™ BREAST MODEL WITH TUMORS

Realistic reproduction of a breast made from ultrasound material with three tumours for realistic punctures and biopsies.

More SONOtrain™ models include:
- SONOtrain™ Vein Model 1019637
- SONOtrain™ Foreign Body Model 1019636
- SONOtrain™ Gallbladder Model 1019638
- SONOtrain™ Breast Model with Cysts 1019634
IMPROVE OUTCOMES OF SPINE INTERVENTIONS WITH STANDARDIZED IMAGE GUIDED INJECTION TRAINING!

IMAGE GUIDED INJECTION TRAINERS

The 3B Scientific® Image Guided Spinal Injection Trainers enable trainees and course participants to develop a three-dimensional understanding of the procedures for successful spine interventions. They will learn to correlate imaging with the spinal anatomy relevant to interventional pain procedures, to identify the target tissue and vulnerable structures using imaging and anatomic inspection, and to apply best practices to ensure patient safety during the interventional spine procedures.

Developed in cooperation with Dr. Markus Schneider, Bamberg

- Life-like radiopacity for realistic X-ray images
- Realistic injection haptics with self-sealing material
- Anatomically accurate bone structure
- Visually identifiable landmarks
- Completely portable with a secure transport box

References: Instrumentarium Imaging ZIEHM VISTA • Max KVP: 110kV, Total filtration 4.0 mm AL • Focal spot 0.5/1.5

LUMBAR SPINE P65  THORACIC SPINE P66  CERVICAL SPINE P67

1021898  1021899  1021900

IMPROVE OUTCOMES OF SPINE INTERVENTIONS WITH STANDARDIZED IMAGE GUIDED INJECTION TRAINING!
A LEAP FORWARD IN ANESTHESIA TRAINING!

EPIDURAL AND SPINAL INJECTION TRAINER P61

Train the localization of the epidural space without ultrasound to administer epidural and spinal injections. You can easily adjust the trainer to simulate different pathologies. The training with realistic haptic feedback and correct anatomical landmarks is the basis for a successful preparation for real-life cases.

Training features:

- Realistic anatomical landmarks for assessing the correct insertion point
- Loss of resistance (LOR) syringe technique through realistic haptic feedback
- Hanging drop method: the negative pressure in the fluid filled spinal canal can easily be adjusted
- An epidural catheter can be inserted into the epidural space
- Spinal anesthesia training with realistic resistance of the dura and arachnoid mater with or without a cannula

COMPUFLO® EPIDURAL TRAINER

The CompuFlo® Epidural Trainer features Dynamic Pressure Sensing® (DPS) technology that detects tissue changes that are imperceptible by touch. This intelligence allows the trainee to objectively identify location and differentiate between true and false loss of resistance.

ADD THIS NEW GERIATRIC LOR INSERT FOR ADDITIONAL TRAINING POSSIBILITIES:

Simulates the typical spine deformation of an elderly patient:
Optional Geriatric insert to complete your epidural and spinal skill training
OBSTETRICS

Medical Simulation in the training of obstetric emergencies is an effective tool to improve knowledge, technical skills, teamwork and structured communication and is used in obstetric emergency skill training programs. Obstetric simulation is used to practice delivery skills and emergency interventions with the goal to lower the mortality rate during birth. The scenario based obstetric training includes normal deliveries, common complications during delivery, as well as obstetric emergencies:

- Evaluation of the Baby’s position and presentation
- Diagnosis of complications
- Interventions for shoulder dystocia and breech deliveries
- Manual maneuvers like Ritgen or Leopold
- Cesarean sections
- Complete and incomplete placenta birth
- Medical interventions before, during, and after the delivery
- Pre- and post-natal care

3B Scientific, iSimulate and Operative Experience offer many different obstetric simulators and birthing phantoms as well as newborn manikins to practice neonatal resuscitation. All medical staff that is involved in obstetrics – doctors, nurses, and midwives – benefit from obstetric simulation as such, but also from training together as a team.
REALMOM™ 2.0 BIRTHING SIMULATOR

For Realistic Obstetrics Training

New and improved with full range of deliveries including breech, shoulder dystocia, cord prolapse, forceps and vacuum assist and the possibility to practice multiple birthing positions. Tablet and software included.

The benefits of using RealMom 2.0 Birthing Manikin:

- Vaginal delivery training
- Remote controlled birthing scenarios
- Postpartum Hemorrhage Control
- A birthing manikin for realistic vaginal delivery training
- Easy to set up – ready to use

THE WORLD’S MOST NATURAL AND REALISTIC VAGINAL BIRTHING SIMULATOR

Life-like birthing simulation

Full-body, 59 kg

Remote controlled mother and baby

Superior flexibility for multiple birthing positions

Limitless, ultra-realistic deliveries

AVAILABLE IN DIFFERENT SKIN TONES.
Obstetric surgery skills and procedural training can be true-to-life with the C-Celia suite of five birthing simulators. The materials used in the simulator feel life-like (no hard plastics), are very durable and easy to clean.

The unprecedented anatomical and surgical fidelity of the soft tissue used will provide the most comprehensive training experience for mastering:

- Cesarean Deliveries
- Difficult Fetal Extraction
- Postpartum Hemorrhage Control
- Emergency Hysterectomy

BE READY TO DISCOVER THE WORLD’S ONLY BIOFIDELIC TECHNOLOGY THAT DELIVERS A TRUE HANDS-IN-THE-BODY SURGICAL EXPERIENCE
SIMore™
BIRTHING SIMULATOR FOR ADVANCED TRAINING

The simulator presents the haptics required in order to perform the instrument-assisted delivery in the correct manner: presentation data, placement of the forceps and extraction, taking care of the head of the infant and the maternal soft tissue. The monitoring software provides information in response to the manipulation of the fetal head in the context of force-feedback. Realistic speed and resistance are simulated during delivery.

• 14 interactive birthing scenarios
• Adjustable all-in-one touchscreen PC
• Easy to move
• Highly flexible and robust vulva insert
• Electrical height adjustment
• Practical storage unit

Train realistic and interactive high-stress scenarios for vacuum and forceps delivery:

SIMULATE HIGH-STRESS BIRTHING SCENARIOS WITH THE AWARD-WINNING SIMore™

Examples of interventions and findings:

Meds:
- Misoprostol
- Prostaglandin
- General Anesthetic
- Paracetamol
- Methyldopa
- Ceftriaxone
- Ringer Solution
- NaCl

- Blood Pressure
- Amniotic Fluid
- Urine Screening Test
- Placenta Examination
- Fetalometry
- Amniocentesis
- Fetal Heart Rate
- Patient Questions
- Send Patient Home

Medication options:
- Paracetamol
- Misoprostol
- Prostaglandin
- General Anesthetic
- Paracetamol
- Methyldopa
- Ceftriaxone
- Ringer Solution
- NaCl
The ease of use and intuitiveness of CTGi helps facilitate in-situ training requiring cardiotocograms (CTGs). Aiding midwives and obstetricians for training in the assessment of fetal wellbeing and the detection of hypoxia. By mimicking fetal heart rate patterns, health professionals are able to gain vital experience in the interpretation of traces and practise life-saving interventions.

Train realistic and interactive high-stress scenarios for vacuum and forceps delivery:
- Haptic response technology
- Visual and audio interface
- Full debrief for optimal learning effect
- Multi-dimensional learning techniques are combined to assure a maximum effect!

CTGi creating realistic traces with exceptional detail:
- Add decelerations, accelerations and contractions within minutes
- Complements birthing simulators to create high fidelity simulation
- Pause, rewind and fast forward with a swipe
- Manage maternal vitals
- Portable CTG training system

A HIGHLY ADVANCED AND REALISTIC FETAL HEART RATE MONITOR SIMULATOR

Fetal Heart Rate Tocograph Monitor

1022818
BIRTHING SIMULATOR P90 BASIC

The 3B Scientific® Birthing Simulator P90 BASIC has been developed for the skill training in normal deliveries, in complicated deliveries and in obstetric emergencies. Obstetric simulation has proven successful to enhance the training of delivery skills, following of protocols and reaction in emergency situation. The BASIC version of the Birthing Simulator offers all features of the PRO version but comes with a pre-cut cesarean insert and a BASIC birth canal. It does not include an amniotomy insert nor an inflatable uterus for Leopold.

UPGRADE KIT FOR 3B BIRTHING SIMULATOR BASIC

You can extend your birth simulator, P90 Basic, with this upgrade kit, to offer all the training features of the Pro version. The following birth scenarios can be demonstrated and practiced too: C-section birth, including cutting and tearing a C-section, vertical amniotic sacs including release of the amniotic fluid, manual-diagnosed fetal positions of the baby through the abdominal wall (e.g. Leopold method).
**EPISIOTOMY AND SUTURING SIMULATOR P95**

Life-like texture and separate skin and muscle layers for very realistic training of suturing techniques for episiotomies as well as vaginal and labial tears. The trainee will gain experience in instrument handling as well as suture techniques and tying knots.

With this trainer, taking care of the following birth injuries can be practiced and demonstrated:

- Median episiotomy
- Mediolateral episiotomy
- Lateral episiotomy
- Vaginal tears
- Labial tears

---

**PPH TRAINER P97**

The PPH trainer from 3B Scientific™ is designed to be an affordable, versatile and realistic training tool, which will enhance the competence and the confidence of the healthcare professional providing postpartum care and managing postpartum bleeding.

Multi-dimensional learning techniques are combined to assure a maximum effect. The PPH Trainer P97 will be useful for training the following procedures:

- Delivery of placenta, also incomplete
- Identification of the blood loss nature: uterus, cervix, vagina
- Visual estimation of the blood loss volume
- Atonic uterus management
- Practice the fundal massage
- Perform bimanual compression
- Practice catheterization

**Features:**

- Adult size lower torso with accurate anatomy, including ischial spines, pubic bones and sacrum for a realistic examination
- Adjust easily uterine tone with the pump attachment

---

**BIRTHING STAGES TRAINER P94**

Determine the labor progress using 6 pelvic inserts with various levels of cervical dilation and effacement. The inserts can be used both as stand-alone trainers and as an extension module for the Birthing Simulator P90 (see page 52).

**The benefits of using Birthing Stages Trainer P94:**

- The trainer consists of a set of 6 different pelvic inserts with very realistic anatomical details.
- The inserts look the same from the outside and the birthing stations can only be identified by examination or by reading the number written on the back of the trainers.
GYNECOLOGY SKILLS TRAINER P91

The Gynecologic Skills Trainer P91 is a full-sized, adult lower torso made of 3B Scientific® SKINlike™ high-quality silicone for a realistic look, feel and texture in addition to a life-like softness offered during palpation. It is a new versatile training tool designed to add hands-on experience for learners practicing gynecologic skills.

- Soft abdominal cover allows bimanual palpation of normal and abnormal uterus
- Offers realistic flexibility of the vaginal wall
- Seamless, flexible skin for practice of speculum placement
- Urethra built for catheterization simulation with CH 14 catheter
- Use easy interchangeable cervices for visualization with speculum
- Normal Fallopian tubes are removable and replaceable by abnormal fallopian tubes with an ectopic pregnancy

MODEL FOR GYNECOLOGICAL PATIENT EDUCATION

Ideal for demonstration purposes and for practicing insertion of female barrier contraceptive devices, including the femidom, cervical cap, vaginal ring, diaphragm and IUD. It is possible to insert various types of pessaries such as ring, bowl or cube which are used in the event of a prolapse or incontinence. Transparent part allows for clear inside view.

WEARABLE BREAST SELF EXAMINATION MODEL

Demonstrate realistic self-examination with this natural casting of a female upper body with C-cup breasts. It can easily be worn, in order to better train and practice breast self-examination.

- Made of Scientific® SKINlike™ high-quality silicone for a realistic feel
- Breast examination is possible in both upright and lying positions
- Benign and malignant tumors in different stages of development create an understanding of what to feel for

AVAILABLE IN DARK SKIN TONE FROM AUGUST
CONDOM TRAINING KIT
L42
Use this model to easily teach how to use a condom safely. Realistic anatomical structures and firmness. Supplied with 12 lubricated training condoms and a carrying bag.

Light Skin Tone 1000340
Dark Skin Tone 1000341

TESTICLE
SELF-EXAMINATION L60
By using 3B Scientific® SKINlike™ high-quality silicone, learning and practicing self-examination of the testicles becomes even more realistic. The scrotum contains two movable testicles, the epididymis, and the spermatic cords for palpation. Two pathological findings can be felt in the left testicle. Supplied with detailed instructions for self-examination and a carrying bag.

AFFORDABLE DIGITAL RECTAL EXAM SIMULATOR FOR CLINICAL SKILL TRAINING!

PROSTATE EXAMINATION TRAINER WITH 4 STAGES P58/1
Demonstrate and practice digital rectal examinations (DRE) with this affordable skill trainer. The trainer includes 4 different prostates to train professional palpation methods (side position or bent forward) and diagnostic skills associated with rectal examinations. The shape, position and consistency of the prostate can be assessed, allowing irregularities, induration and nodes on the otherwise smooth surface of the prostate to be felt. For reference and self-control, the trainer also includes the corresponding transrectal sonographic imaging (transrectal ultrasound, TRUS) for each stage. While in use, the prostate and the sonographic images are hidden and cannot be seen by the trainee. The compact shape of the DRE Trainer makes it easy to store and the perfect skill trainer for every medical simulation lab.

Palpable Stages:

- Normal prostate
- Advanced prostate carcinoma
- Prostate carcinoma at an early stage
- Benign prostatic hyperplasia (BPH)

1013116

AVAILABLE IN DARK SKIN TONE FROM AUGUST
OBSTETRICS LAB SET

3B Scientific now offers Simulation Kits specifically tailored by area of medical practice showing a selection on the following pages. Many more are available online. These kits combine our top-selling simulators with complementary high-quality anatomical models and charts – ideal for classrooms and patient education. These simulation kits will help teach subjects in a more comprehensive manner.

See the growth and development from an embryo to a fetus in detailed life-size models mounted together on a base. Study the stages of birth from a closed cervix all the way to the fetus navigating through the pelvis and delivery of the placenta.

- Get hands-on practice of normal and complicated deliveries with the 3B Scientific® Birthing Simulator to enhance skills training
- Great for any Obstetrics education class from Elsevier
- Free access to the anatomy course 3B SMART ANATOMY, hosted inside the award-winning Complete Anatomy app by 3D4Medical

THE COMPLETE INTRAMUSCULAR INJECTION TRAINING KIT TO PRACTICE I.M. INJECTIONS ANYWHERE ON THE BODY!

COMPLETE INTRAMUSCULAR INJECTION TRAINING SET

Train how to locate the correct site for I.M. injections using realistic and anatomically accurate upper arm, buttock, and upper leg simulators. Feel and visualize the correct needle depth for I.M. injections to prevent bone contact in real patients.

- This kit includes the entire 3B Scientific suite of intramuscular injection simulators.
- Great for any I.M. injection training course

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ANESTHESIOLOGY LAB SET

The anesthesiology lab kit is the ideal solution to learn and practice the correct administration of epidurals. Train identifying spinal landmarks and perform spinal injections using a simulator with the look and feel of real tissue. Review the relevant anatomy in life-size scale and accurate detail with quality anatomical models.

Free access to the anatomy course 3B SMART ANATOMY, hosted inside the award-winning Complete Anatomy app by 3D4Medical from Elsevier. To unlock these benefits, simply scan the label located on your model.

GREAT FOR ANY ANESTHESIOLOGY PROGRAM!

IMAGE GUIDED SPINAL INJECTION SETS

The Image Guided Spinal Injection Trainers enable trainees and course participants to develop a three-dimensional understanding of the procedures for successful spine interventions. They will learn to correlate imaging with the spinal anatomy relevant to interventional pain procedures, to identify the target tissue and vulnerable structures using imaging and anatomic inspection, and to apply best practices to ensure patient safety during the interventional spine procedures.

Features:

- Self-Sealing material can be used repeatedly for injection training
- Life-like radiopacity for realistic X-ray images
- Completely portable with a secure transport box
- Durable construction, easy to clean
- Free access to the anatomy course 3B SMART ANATOMY, hosted inside the award-winning Complete Anatomy app by 3D4Medical from Elsevier

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<td>A72 Cervical Spinal Column</td>
<td>P67 Image Guided Cervical Spine Injection Trainer</td>
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Anatomy models are a highly effective tool for studying and explaining human anatomy and a great education solution for medical students, teachers and healthcare professionals alike. 3B Scientific is now offering customers an exclusive digital anatomy course called 3B Smart Anatomy for free with every original 3B Scientific® anatomy model.

The 3B Smart Anatomy course covers 23 lectures about the human skeleton, digestive, urinary, circulatory, neurological and sensory systems, as well as torso, gynecology, dental, genital, pelvis and ENT lectures.

Learn Human Anatomy like never before with the 3B Smart Anatomy course:
• Discover human anatomy in amazing details with high quality rendered virtual models
• Watch the movement of the beating heart
• Dive deeper into the human body on the microscopic level
• Complete anatomy courses delivered by leading experts in human anatomy

Simply scan the label on your model to enjoy all 3B Smart Anatomy features:
• FREE access to the 3B Smart Anatomy course hosted inside the Complete Anatomy platform by 3D4Medical from Elsevier
• The 3B Smart Anatomy course includes: 23 anatomy lectures, 117 interactive virtual anatomy models and 39 anatomy quizzes
• FREE warranty upgrade from 3 to 5 years activated upon product registration

REGISTRATION IS FREE, EASY AND SECURE
Anatomy models are a highly effective tool for studying and explaining human anatomy and a great education solution for medical students, teachers and healthcare professionals alike. 3B Scientific is now offering customers an exclusive digital anatomy course called 3B Smart Anatomy for free with every original 3B Scientific® anatomy model.

The 3B Smart Anatomy course covers 23 lectures about the human skeleton, digestive, urinary, circulatory, neurological and sensory systems, as well as torso, gynecology, dental, genital, pelvis and ENT lectures.
COMPLETE ANATOMY

The multiple award-winning interactive Complete Anatomy app from 3D4Medical from Elsevier, the specialist in transforming medical content into virtual courses, contains a beautifully rendered 3D human anatomy model featuring over 13,000 selectable parts in high resolution. Complete Anatomy is the most accurate and complex 3D anatomical atlas available and it is entirely interactive. Virtual anatomy is now available anywhere - anytime. Watch videos about cardiology, dentistry, fitness, ophthalmology, or orthopedics. Have a closer look at the muscular system, the lymphatic system, the nervous system and many more. Discover them layer by layer, structure by structure, and function by function.

Complete Anatomy Licenses

Complete Anatomy is available in English and in 2 different license versions, to use the app to study human anatomy as a student (Student Plus) or to use it to educate your patients (Professional).

Complete Anatomy – Professional License

The Professional License for Complete Anatomy is the perfect choice to improve a patient's understanding for a condition and the underlying causes and anatomical references you will be making during the patient's interview.

Complete Anatomy – Student Plus License

Choose the Student Plus License for advanced learning and content sharing with an annual subscription to Complete Anatomy. Includes bone mapping, cadaveric references, regional and systemic human anatomy courses, and quizzes.

NOW available with an exclusive 10%* discount only at 3bscientific.com
CLINICAL EDUCATION TECHNOLOGY BY iSIMULATE – NOW ALSO WITH TEMPU S ALS SIMULATION

More on page 10