



MEDICAL SIMULATION

3B Scientific Group of Companies

Find all products online at 3bscientific.com



ABOUT 3B SCIENTIFIC

The 3B Scientific Group of Companies is one of the world's leading manufacturers and sellers of medical simulators and educational training solutions. With our headquarters in Hamburg, Germany, and offices across the globe, we are committed to providing innovative training solutions that enrich customer experiences and raise the bar for medical training worldwide.

3B Scientific is driven by a mission to elevate and enhance medical and healthcare education globally. As Todd A. Murray, CEO of 3B Scientific, emphasizes: "Innovation lies at the core of our actions to continuously expand the possibilities of medical simulation, enrich educational experiences at institutions worldwide, and provide unwavering support to educators. Our commitment extends to delivering exceptional customer service and dedicated care, all while offering high-quality products at fair and accessible prices."

The 3B Scientific Group is on a continuous journey of growth and expansion, with a primary focus on medical simulation. We consistently introduce innovative products and welcome new brands to our family of companies. To explore further details about our group, please visit our website at 3bscientific.com.

On the following pages, you'll discover a thoughtfully selected overview of our offerings in medical simulation. You can explore our full product range online at 3bscientific.com.

We are here to support you. Please contact us for any questions and inquiries you may have!

Your 3B Scientific Team



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SimConnect & REALiTi 360: REDEFINING MEDICAL SIMULATION

Introducing SimConnect: Transforming medical training with lifelike physiological simulations, precision mobile capabilities, streamlined user experience, tailored training options, and portability.

- **Realistic Physiology:** Experience accurate oxygenation and capnography simulations with real sensors for authentic training
- **Precision Mobile Simulation:** Gain real-time, precise tidal volume data for enhanced critical care training. Boosts critical care training quality across any manikin and standardized patient
- **User-Friendly Integration:** Seamlessly integrates with iSimulate's REALiTi 360, simplifying scenario setup, control, and data management
- **Customizable Training:** Tailor scenarios to specific learning goals or choose from a curated library for focused clinical training
- **Portable and Compact:** Due to SimConnect's sleek design, it fits easily into the REALiTi 360 housing

1024636



ATLAS JUNIOR - A GAME-CHANGER IN PEDIATRIC ALS TRAINING

Meet Atlas Junior, the newest member of the Atlas manikin family. Atlas Junior is the evolution of the groundbreaking ALS manikin, Atlas, which has already revolutionized integrated medical simulation. Tailored for pediatric ALS training, Atlas Junior builds on the same successful principles as Atlas, offering a fully mobile, wireless solution that enhances in-situ training and takes pediatric simulation to new levels of realism. Seamlessly integrated with REALiTi 360, Atlas Junior is an indispensable asset for modern medical training.



1024552



Read more about Atlas Junior on page 18.



REALiTi SimScope AUSCULTATION TRAINING STETHOSCOPE

REALiTi SimScope is an electronic training stethoscope module for the REALiTi 360 patient monitor simulators, created to practice auscultation with standardized patients and manikins. Add the REALiTi SimScope to any of your REALiTi systems.

1022954

TEMPUS LS SIMULATED CASE

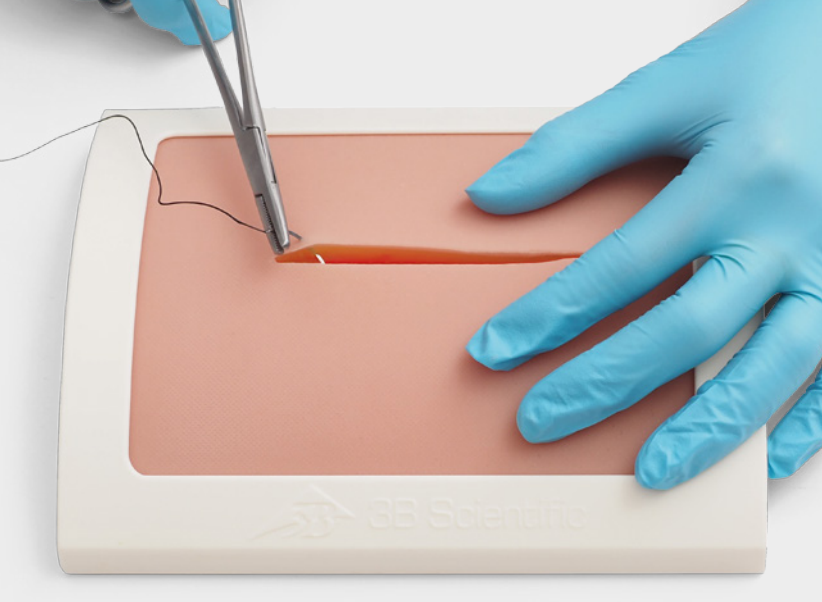
Introducing our meticulously crafted simulated case to match the housing of the Philips Tempus LS Defibrillator. Elevate the visual realism while training with REALiTi 360. Simulated housing provides a realistic and hands-on experience to interact with the equipment and serves as a versatile and practical training tool. Tempus LS Simulated case is designed for iPad mini (6th generation).

Disclaimer:

Colors may change marginally from the image.

1024634





➤ IDEAL FOR STUDENTS: EVERYTHING STARTS WITH EXERCISE

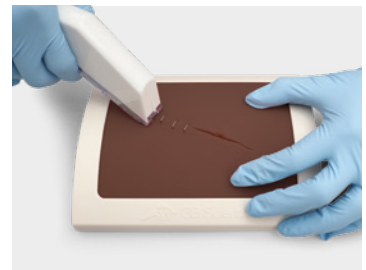
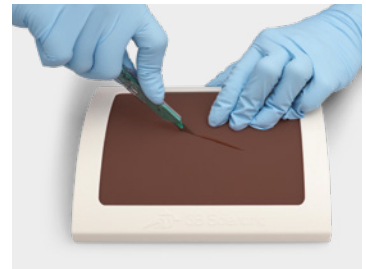
SKIN SUTURE TRAINER P22

The suture pad is made with layers of silicone skin that creates a sensible experience of touch for the user. By using the included proprietary base, users can provide skin tension to the suture pad for a more realistic suture experience. With a sharp scalpel, wounds can be cut at any desired depth or location on the pad. Each cut can be repeatedly sutured until skin at any one site becomes so heavily perforated that it will no longer support more suturing.

Skin Suture Trainer will be useful for training the following procedures:

- Purse-string sutures
- Continuous suturing
- Interrupted suturing
- Stapler suturing
- Z-Plasty suturing

Light Skin Tone	1024494
Dark Skin Tone	1024495



➤ ENHANCE THE REALISM OF YOUR SIMULATION TRAINING!

BLOOD POWDER

3B Scientific® water-soluble Blood Powder enables to create blood of realistic consistency and feel.

The 3B Scientific® Blood Powder works best for the following products:

P97 PPH Trainer, P97 Pro PPH Trainer Pro, P102 Hemorrhage Control Arm Trainer, P103 Hemorrhage Control Leg Trainer and more.

1023954

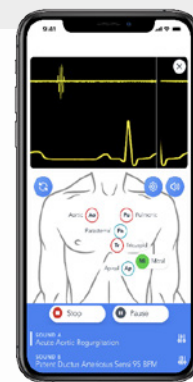




SAM4 AUSCULTATION TRAINING MANIKIN

Experience the future of interactive auscultation training with the new SAM4 Adult Auscultation Trainer. Compatible with both Android and iOS smartphones*, this innovative device takes your training sessions to the next level.

- Any stethoscope can be used to listen and identify sounds located in any of the 15 locations from anterior and posterior auscultation sites
- SAM4 starts with a Library of 75 sounds in the basic version, and additional contents available on an advanced version includes Real Sounds, Dynamic Sounds and Echocardiogram videos
- Indicative lights on the auscultation points, rotational base and the possibility to connect a Bluetooth sound device are built in features of any SAM4.



SAM4 Light Skin Tone	1024553
SAM4 Dark Skin Tone	1025087
SAM4 Plus Light Skin Tone	1025098
SAM4 Plus Dark Skin Tone	1025099

*Smartphone not included

› TAKE YOUR AUSCULTATION CLASSES TO THE NEXT LEVEL!

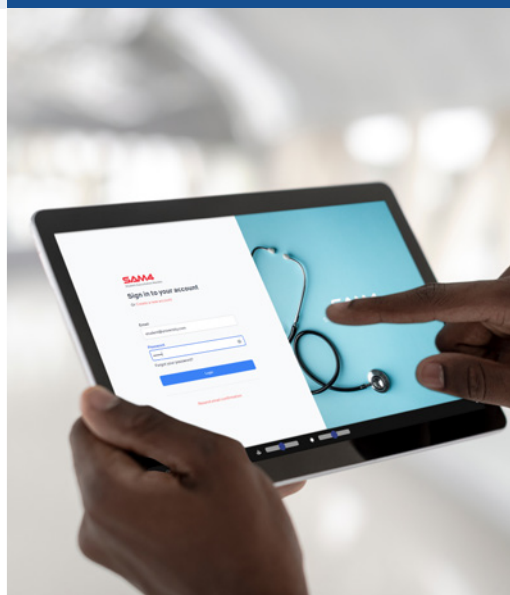
Cardionics
The Heart of Auscultation

SAM4 ONLINE AUSCULTATION SOFTWARE

SAM4 Online is an app- and webbased e-learning software that efficiently enables you to take your auscultation classes to a next level. By incorporating SAM4 Online in your physical or digital classroom, you can engage with immersive auscultation training anywhere, anytime.

SAM4 Online auscultation e-learning software and app allows educators to incorporate prepared lesson content into lectures as well as use own materials.

Licence for 1 year	8001149
Licence for 3 years	8001151
Licence for 5 years	8001154



eSono ULTRASOUND SIMULATOR

e Sono is a revolutionary cloud-based SaaS ultrasound simulator, allowing medical and sonography students and clinicians of all levels of experience to learn and further improve their ultrasound skills on any device from anywhere with an internet connection.

e Sono Ultrasound Simulator features:

- Create content from an extensive library and easily share it with learners
- Upload additional content to enrich learners experience
- Get the most of your training with real ultrasound scans and visualization tools
- Brings up benefits for educators and learners

Benefits for Educators:

- Access to a continuously growing library of 300+ exercises
- Includes pathology ultrasound scans
- Give all students the flexibility of when and how to learn
- Engaging digital training that complements laboratory work
- Save evaluation time with automated objective assessment
- Accommodate learners of different levels in one single solution
- Ability to create your own content

Benefits for Learners:

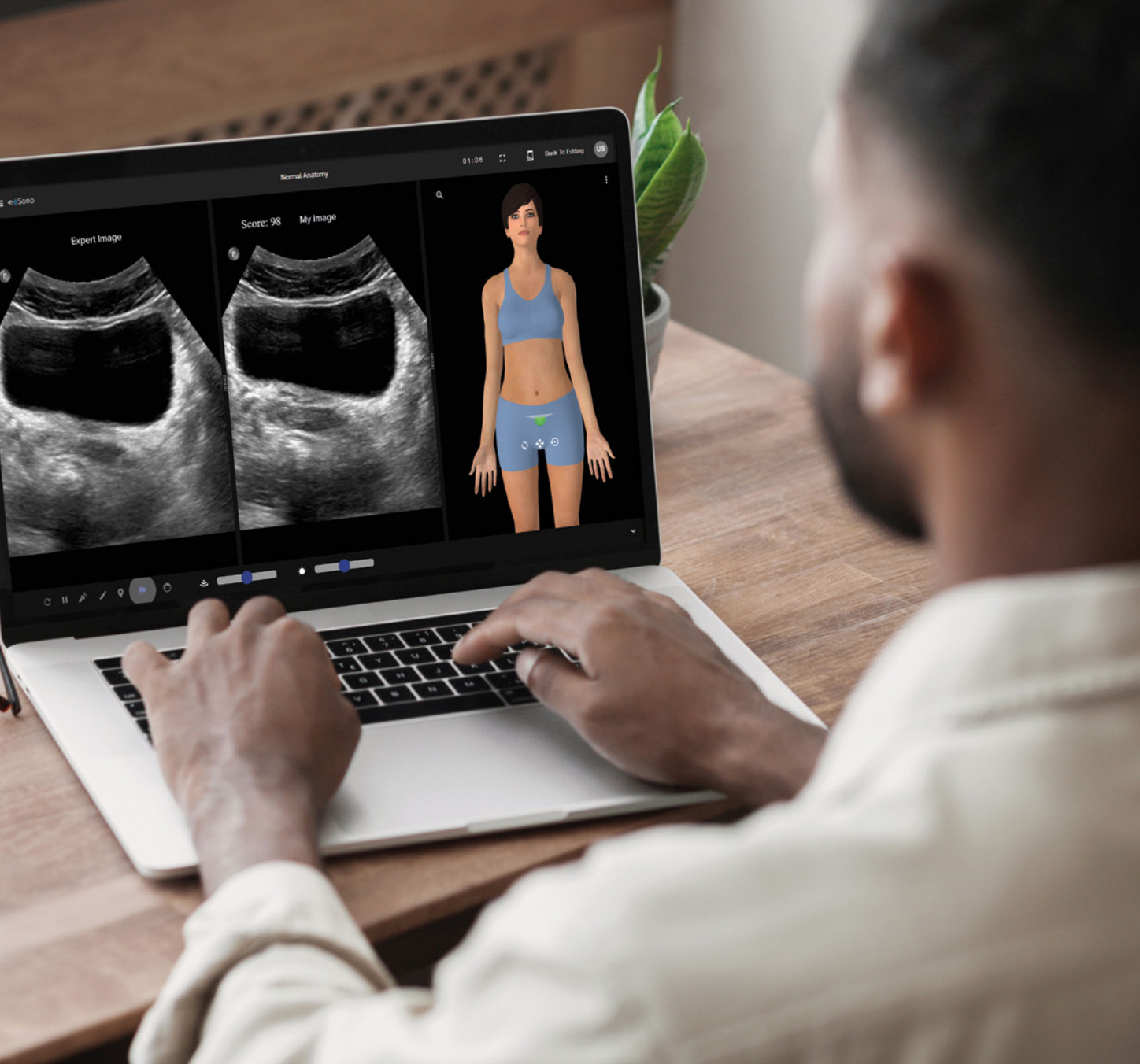
- Navigate through real ultrasound volumes as if you were with the patient
- Prep yourself on specific content before class
- Receive immediate feedback on each exercise
- Practice probe positioning and enhance hand-eye coordination
- Learn anytime, anywhere, and refine your skills beyond the lab.

8001206



› CURIOUS TO SEE e Sono IN ACTION? SCAN THE QR CODE:

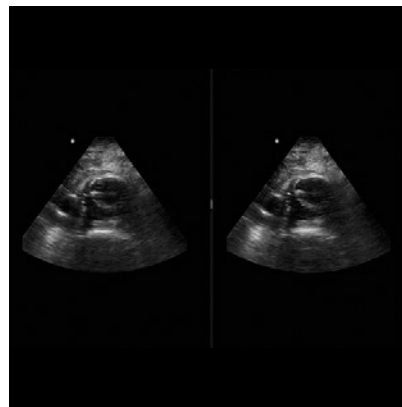




NEW PRODUCTS

➤ A BREAKTHROUGH IN ULTRASOUND SIMULATION

eSono





LIFECAST BODY SIMULATION – IMPRESSIVE PRODUCT DIVERSITY

The range of highly accurate and lifelike medical manikins are transforming the way medical simulation and education are delivered and absorbed. Designed and produced at the renowned Elstree Film Studios in London and in Sarasota, Florida, every manikin demonstrates a remarkable level of realism and the very highest quality.

Discover why medical simulation experts worldwide choose Lifecast Body Simulation products:

- 1. Unmatched Realism:** The simulators replicate the smallest nuances of human anatomy, providing an accurate representation for trainees to practice on. This level of realism creates a sense of authenticity, allowing medical professionals to develop their skills with confidence.
- 2. Diversity:** The product range encompasses a diverse array of simulators representing different ethnicities and disabilities. Lifecast Body Simulation is responsible for creating some of the world's pioneering manikins, such as the Down Syndrome Manikin and Micro Preemie Manikin. Trainees can practice and refine various procedures on our simulators, ensuring they are prepared for the diverse challenges encountered in real-world healthcare settings.
- 3. Versatility:** Lifecast simulators cover a wide range of medical scenarios, including airway management, CPR, skin turgor for the training of intravenous therapy, and much more.

LIFECAST
· BODY SIMULATION ·

› CREATE EMOTIONAL ENGAGEMENT IN MEDICAL EDUCATION!

10



ADOLESCENT HEALTHCARE – INTRODUCING TEENAGER MANIKIN KELSEY

Meet Kelsey, the latest addition to Lifecast Body Simulation's product lineup. Kelsey's exceptional precision originates from the meticulous scanning and sculpting of real-life teenagers, capturing intricate details such as veins, underlying structures, hair, and precise anatomical features of the mouth and airway. Kelsey is equipped with the capa-

bility to train medical procedures such as oral intubation, CPR specifically designed to facilitate a 50/50 duty cycle, intraosseous placement, and various other functionalities. This dark-skinned female manikin is a representation of the typical female teenager, addressing a crucial gap in medical training and elevating the quality of care for this age group.

1024738



PRACTI-INSULIN™ REGULAR FOR CLINICAL TRAINING

Teaching insulin injections made easy, realistic and safe. The Practi-Insulin™ regular vials used for clinical training only, mimicks the regular insulin which is a short-acting human insulin used in the management of diabetes mellitus type 1 and type 2 (and in some cases) to improve glycemic control.

Benefits for Learners:

- Mastering the act of insulin dosage calculation
- Hands-on grasp of the different types of insulin
- Practicing the rights of medication administration

1024857



› THE SIMULATED EMERGENCY AND NON-EMERGENCY MEDICINES THAT MAKE PRACTICE PERFECT

SIMULATE AND SUCCEED WITH WALLCUR PRACTI-PRODUCTS®

As the originators of simulated medications, our Practi-Products® incorporate essential training tools for medication reconstitution, safe vial and ampule handling, intravenous injections, IV medication delivery, oral medication dosing, proper usage of autoinjectors, inhalers, code medicines and much more. Developed by a team of industry experts, the Practi-Products® provide affordable and reliable hands-on simulation and training that support evidence-based learning and practice.

We create safe, realistic learning experiences, shaping confident practitioners for modern healthcare:

- Simulated code medicines for emergency medical services and trauma
- Prefilled syringes
- Rapid sequence intubation kits
- Glucagon administration kits
- Patches, ointments, nebuluses
- Labels for ampules and vials



Practi-Vials™ for Training



Practi-Ampules™ for Training



Practi-Oral Medicines™ for Training



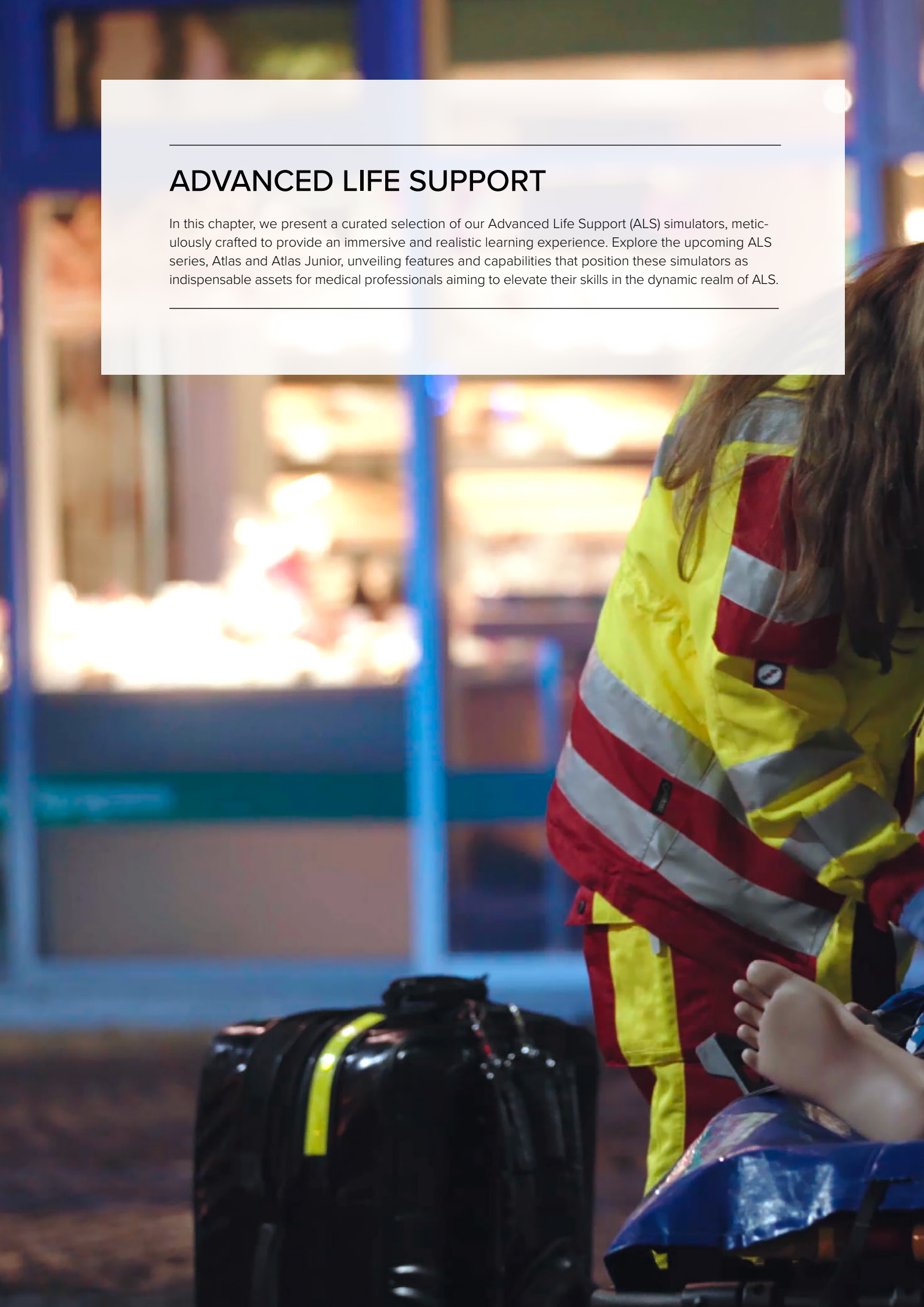
Practi-Droppers™ Inhalers™ and Sprays™ for Training



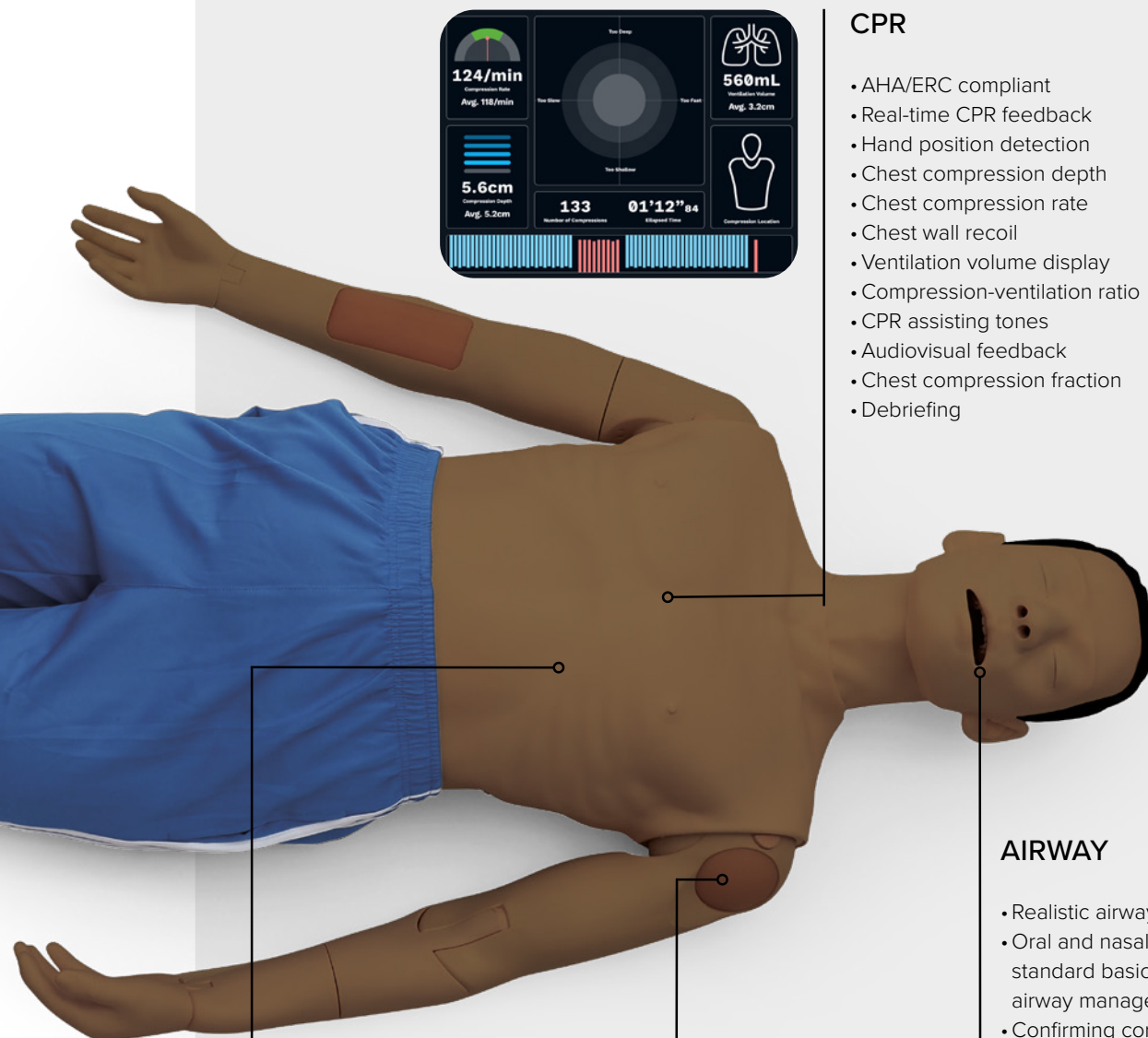
ALL PRACTI-PRODUCTS ARE NOT FOR HUMAN OR ANIMAL USE. FOR TRAINING PURPOSES ONLY

ADVANCED LIFE SUPPORT

In this chapter, we present a curated selection of our Advanced Life Support (ALS) simulators, meticulously crafted to provide an immersive and realistic learning experience. Explore the upcoming ALS series, Atlas and Atlas Junior, unveiling features and capabilities that position these simulators as indispensable assets for medical professionals aiming to elevate their skills in the dynamic realm of ALS.







CPR

- AHA/ERC compliant
- Real-time CPR feedback
- Hand position detection
- Chest compression depth
- Chest compression rate
- Chest wall recoil
- Ventilation volume display
- Compression-ventilation ratio
- CPR assisting tones
- Audiovisual feedback
- Chest compression fraction
- Debriefing

AIRWAY

- Realistic airway
- Oral and nasal intubation using standard basic and advanced airway management devices
- Confirming correct placement of an advanced airway (endotracheal tube) using waveform capnography
- Right stem intubation
- Esophageal intubation
- Gastric insufflation

CARDIAC

- Use with a simulated defibrillator
- Defibrillator pads placement
- 12 lead ECG print out
- 10 electrodes of ECG placement
- Assessment and treatment of more than 70 arrhythmias
- Cardioversion
- Pacing

CIRCULATORY

- IV site
- IO site
- Drug administration
- Fluid resuscitation
- Temperature management
- Adjustable BP levels (systolic/diastolic)
- Automatic carotid pulse (synchronized with ECG)
- Variable pulse rates

ATLAS, THE ALS SIMULATOR

Atlas, produced by 3B Scientific, is a life-sized ALS manikin that is lightweight and completely mobile, facilitating convenient in-situ training with ease. Atlas is equipped with an intubatable head, enabling both oral and nasal intubation using airway adjuncts. The innovative ribcage design allows for realistic compression movements during CPR. With wireless functionality and integration with REALiTi 360, Atlas provides real-time CPR feedback, including compression and ventilation values, and the pulse is controlled directly by REALiTi settings on the controller. The combination of Atlas and REALiTi 360 offers a complete solution for AHA/ERC-compliant ALS training.



Light Skin Tone 1023796
Dark Skin Tone 1024113

ATLAS FEMALE CHEST ADD-ON

By simply replacing the chest skin, convert your manikin to a female manikin and practice cardiopulmonary resuscitation techniques realistically on a female chest. The Atlas female chest skin helps recognize that breasts do not hinder CPR efforts and encourages equal and effective training in lifesaving measures.

Light Skin Tone 1024557





ATLAS JUNIOR, THE PEDIATRIC ALS SIMULATOR

Following the same design concept of Atlas, Atlas Junior is fully mobile for effortless in-situ training, wireless and entirely integrated with REALiTi 360. The combination of Atlas Junior and REALiTi 360 offers a complete solution for AHA/ERC compliant ALS trainings.

The whole system can be used straight out of the box and requires no sophisticated technical setup or maintenance. REALiTi 360 mimics a large selection of different patient monitors, defibrillators and ventilators used in pre-hospital and hospital environments. With the growing selection of monitors and defibrillators you can train and stay focused on realism.

Light Skin Tone 1024552



THREE OPTIONS ARE AVAILABLE FOR COMBINING REALITi 360 WITH ATLAS AND/OR ATLAS JUNIOR

- YOU ONLY NEED ONE REALITi SYSTEM FOR YOUR ENTIRE ATLAS FAMILY.
PICK YOUR REALITi SYSTEM, FOR MORE DETAILS SEE PAGE 27.



REALITi GO

REALITi Go – Start your simulation training with the basics

1022862

REALITi PLUS

REALITi Plus – Improve your simulation activities

1022815



REALITi PRO

REALITi Pro – Enhance your simulation experience

1022816



HEMORRHAGE CONTROL ARM TRAINER P102

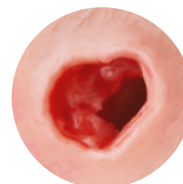
➤ REALISTIC TRAINING OF BLEEDING CONTROL AND MANAGEMENT OF TRAUMATIC INJURIES!



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
- Instructor controlled bleeding 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)
- Designed for field use: sturdy construction requires no batteries or external power and can be worn by a Standardized Patient or manikin

Light Skin Tone 1022652
Dark Skin Tone 1023313



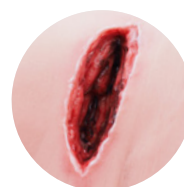
HEMORRHAGE CONTROL LEG TRAINER P103

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. The Leg Trainer P103 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



Light Skin Tone	1023106
Dark Skin Tone	1023314



iSIMULATE – THE LEADER IN CLINICAL EDUCATION TECHNOLOGY OFFERING SMART AND COST EFFECTIVE MEDICAL SIMULATION SOLUTIONS

In January 2020, iSimulate became an integral part of the 3B Scientific Group. Today, our primary focus centers on the continuous enhancement of our feature set and the integration of a wide range of interfaces from various devices commonly used in the medical field.

iSimulate, established in 2011, was founded with a mission to deliver efficient, dependable, and life-like simulation tools. The innovative solution they developed has transformed healthcare simulation training on a global scale.



REALiTi 360 ECOSYSTEM

SIMULATIONS COME TO LIFE WITH THE REALiTi 360 ECOSYSTEM:

- Mimics real defibrillators, monitors and ventilators
- 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
- Enables creation of own scenarios within minutes



ADD THE NEW SimConnect TO YOUR SYSTEM,
SEE PAGE 04.

 REALiTi360



24

► 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 closely mimic real user interfaces and are an essential component of the REALiTi Software from the REALiTi 360 Community platform. REALiTi 360 may be used “on the fly” or by using pre-programmed scenarios. Instructors can easily add and create their own scenarios or download free scenarios from the REALiTi 360 Community platform.



NEW CASE FOR THE PHILIPS TEMPUS LS DEFIBRILLATOR, SEE PAGE 05.



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

Hamilton T1 Ventilator

8001137



DEFIGARD Touch 7 Defibrillator

8001000



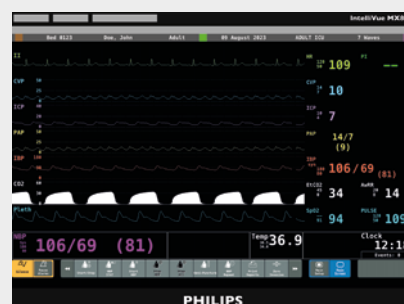
Corpuls 3T Defibrillator

8001071



Philips Intellivue MX800 Patient Monitor

8000974



ZOLL X Advanced Defibrillator

8001205



Lifepak 15 Defibrillator

8000971



➤ FIND THE REALITi 360 KIT TO SUPPORT YOUR SPECIFIC TRAINING REQUIREMENTS:

	REALITi Go	REALITi Plus	REALITi Pro
Item Number	1022862	1022815	1022816
Universal (Generic) Screens – Patient Monitors, Defibrillators, AEDs and Ventilators	6	6	6
Number of Premium screens included (Zoll, Philips, Schiller, etc.)	–	1	5
Optional Premium Screens to choose from	25+	25+	25+
Patient Monitor Tablet (included)	iPad Pro 12.9”	iPad Pro 12.9”	iPad Pro 12.9”
Controller Tablet (included)	iPad 10.2”	iPad 10.2”	iPad 10.2”
1 WiFi Router	✓	✓	✓
1 USB Powerbank	✓	✓	✓
1 Simulation bag and Accessory set*	✓	✓	✓
ECG Waveforms – Rate Controllable	80+	80+	80+
ECG – Advanced Functions	✓	✓	✓
Static ECG – 12 Lead	✓	✓	✓
Live/Dynamic ECG – 12 Lead	–	✓	✓
SpO ₂ Waveforms	✓	✓	✓
CO ₂ Waveforms	✓	✓	✓
Invasive Blood Pressure Waveforms	✓	✓	✓
Critical Care Waveforms	–	ICP, CVP, PAP**	ICP, CVP, PAP**
Preserve CO ₂ during CPR	✓	✓	✓
Scenario Creation	✓	✓	✓
Radiology and Patient Images	✓	✓	✓
Laboratory Reports	✓	✓	✓
Training Management System	✓	✓	✓
CPR Feedback Module	Optional	Optional	✓
Video Debriefing Module	Optional	Optional	✓
Patient Chart	Optional	✓	✓
Remote Control Module	Optional	Optional	Optional

* Accessory set: 3 leadwires ECG cable snap, 7 leadwires ECG cable snap, 10 leads ECG trunk cable, SpO₂ sensor (Adult, Ped, Neo), NIBP cuff (Adult, Ped, Neo), Defibrillator/ AED pads connector and Defibrillator Pads (Adult and Ped), Disposable adult and Pediatric ECG electrodes, EtCO₂ sensor and temperature probe.

** Available on selected patient monitors and defibrillators.

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 pre-hospital and hospital area.

1022862



REALiTi PLUS

REALiTi Plus – Improve your simulation activities

Introduce one simulated premium screen to your training. REALiTi Plus is the perfect choice for introducing medical personnel to the operation and functionality of a patient monitor, defibrillator or ventilator.

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



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 and its brands, offer a complete suite of simulators and task trainers that will help you elevate your training to the next level of realism.

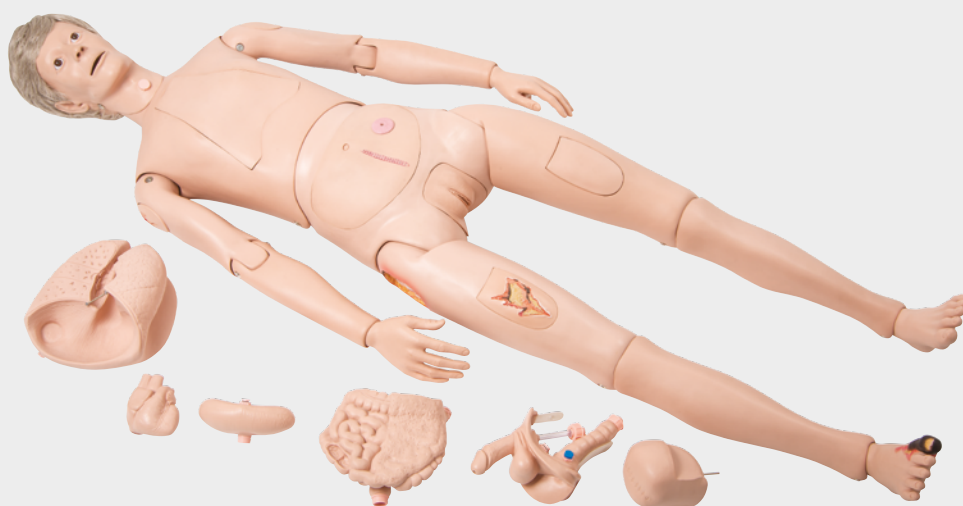


NIKKI THE NURSING MANIKIN WITH AUSCULTATION

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).

1022952



- Ideal to train the full suite of patient care and medical care skills
- NEW with auscultation:
 - 21 heart sounds, including Aortic Stenosis, Patent Ductus Arteriosus (PDA) and Mitral Valve Prolapse
 - 16 lungs sounds, including Stridor, Pectoriloquy and Pulmonary Edema
 - 6 bowel sounds, including Borborygmus, Hypnoactive Bowel and Normal Bowel Sounds

> NursingScope WI-FI TECHNOLOGY ALLOWS THE TRAINER TO REMOTELY SELECT SOUND SCENARIOS FOR AUSCULTATION TRAINING AND CHANGE THEM DURING A SCENARIO.

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➤ **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

1018816





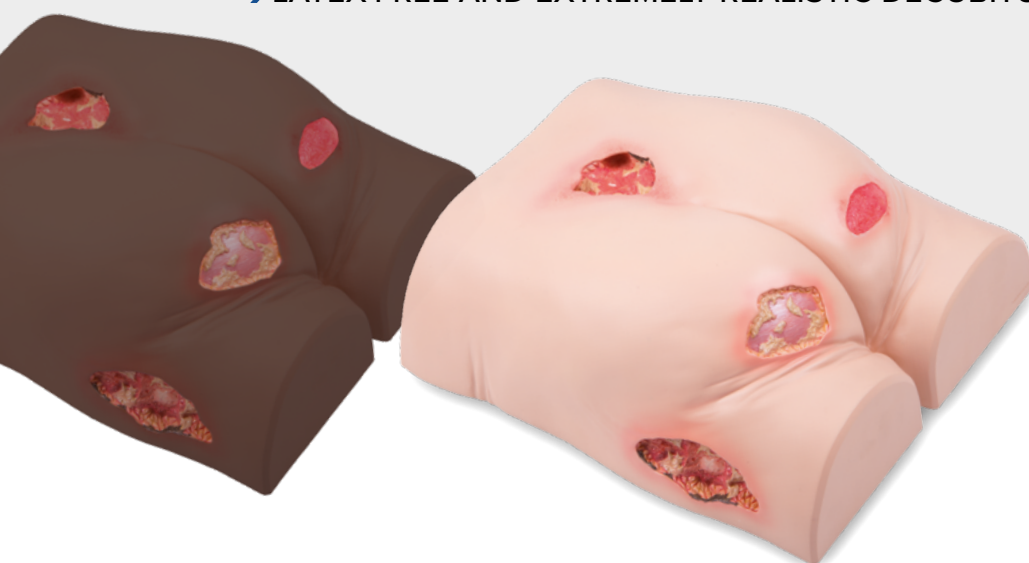
DIABETIC FOOT TREATMENT TRAINER P14

The after-effects of a 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

1018815

> LATEX-FREE AND EXTREMELY REALISTIC DECUBITUS SIMULATOR



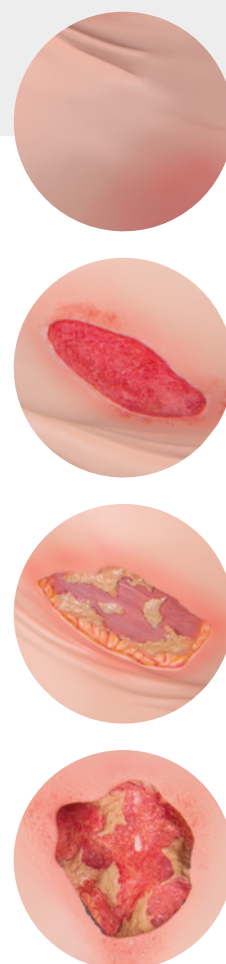
DECUBITUS TRAINER P15

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

Light Skin Tone 1019698
Dark Skin Tone 1023319





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

Light Skin Tone 1022519
Dark Skin Tone 1023320



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 utilising 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

Light Skin Tone	1020097
Dark Skin Tone	1022474





PAT® PEDIATRIC AUSCULTATION TRAINER

Pediatric growth and developmental issues require careful attention to recognize the signs and sounds associated with pediatric specific disorders. PAT® is the perfect torso manikin for healthcare simulation and teaching the critical skill of pediatric auscultation.

BASIC Light Skin Tone	1023423
BASIC Dark Skin Tone	1023424
Light Skin Tone	1020096
Dark Skin Tone	1022473

➤ AUSCULTATION TRAINING AT ANY TIME AND WHEREVER YOU ARE. LEARN MORE ABOUT THE SAM4 ONLINE AUSCULTATION TRAINING PLATFORM ON PAGE 7.



BIONIC HYBRID AUSCULTATION SIMULATOR™ (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

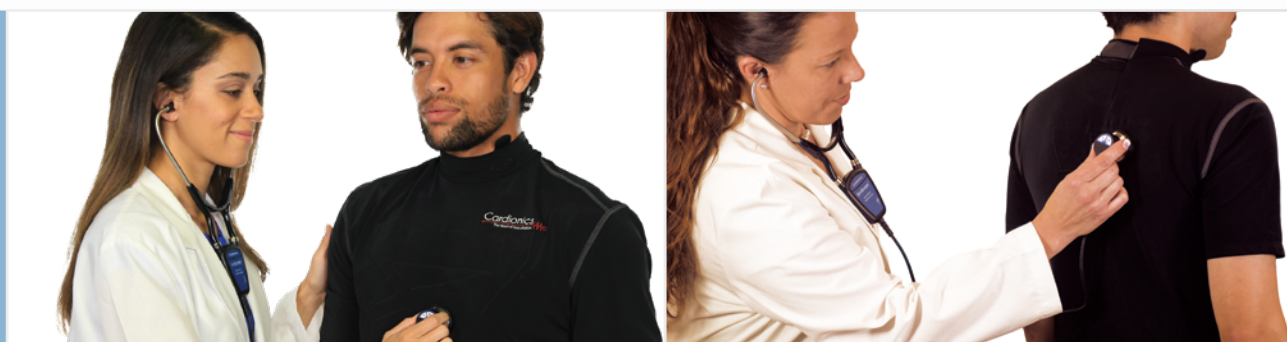


SIMSHIRT® SYSTEM AUSCULTATION SIMULATOR

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 1022827
Size XXL 1022829





Smarter with CPR
Feedback app



► THE ECONOMICAL AND RELIABLE CPR TRAINING MANIKIN WITH DIRECT FEEDBACK

BASICBilly+ BASIC LIFE SUPPORT SIMULATOR

The manikin BASICBilly+ Basic Life Support (BLS) and CPR manikin 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).

  Light Skin Tone 1024546
Dark Skin Tone 1024547

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

1022626





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

CPR*Lilly* PRO+

Measure, monitor and analyze the CPR performance of up to 10 trainees at the same time. CPR*Lilly* PRO+ helps instructors increase effectiveness and efficiency in their CPR courses. Simply connect the manikins with the CPR*Lilly* 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 Tone **1022071**



Head tilt and jaw thrust indicator



Palpable carotid pulse



Lights indicate correct CPR performance

➤ GET DIRECT FEEDBACK IN YOUR AIRWAY MANAGEMENT TRAINING BY I.E. THE LUNG MOVEMENT!

AIRSIM COMBO BRONCHI X

The AirSim Combo Bronchi X is the 'All in one' trainer for your airway management training needs, which provides a complete solution. The model features the AirSim X Airway, nasal passage, an anatomically accurate simulated cricoid, laryngeal cartilages and palpable tracheal rings with the addition of bronchi, which gives anatomical details down to the fourth generation.

Features of the AirSim Combo Bronchi X for your realistic training:

- Needle and surgical Cricothyroidotomy
- Percutaneous tracheostomy
- Diagnostic bronchoscopy and fibre optic bronchoscopy techniques
- Lung isolation techniques and suctioning
- Direct and video laryngoscopy
- Endo and naso tracheal tube insertion
- Supraglottic device insertion
- Bag mask ventilation

Light Skin Tone	1021550
Dark Skin Tone	1023261



AIRSIM COMBO X

The AirSim Combo X is an adult intubation head and cricothyrotomy trainer featuring the uniquely constructed AirSim® X airway with 5-year warranty enhanced with palpable cricoid landmarks, laryngeal cartilages and tracheal rings. Ideal for teaching & training intubation, BVM & all supraglottic devices plus needle and surgical cricothyroidotomy, percutaneous tracheostomy & laryngoscopy.



Light Skin Tone	1021921
Dark Skin Tone	1023266

► REALISTIC SOLUTIONS FOR YOUR CLINICAL SKILLS TRAINING!

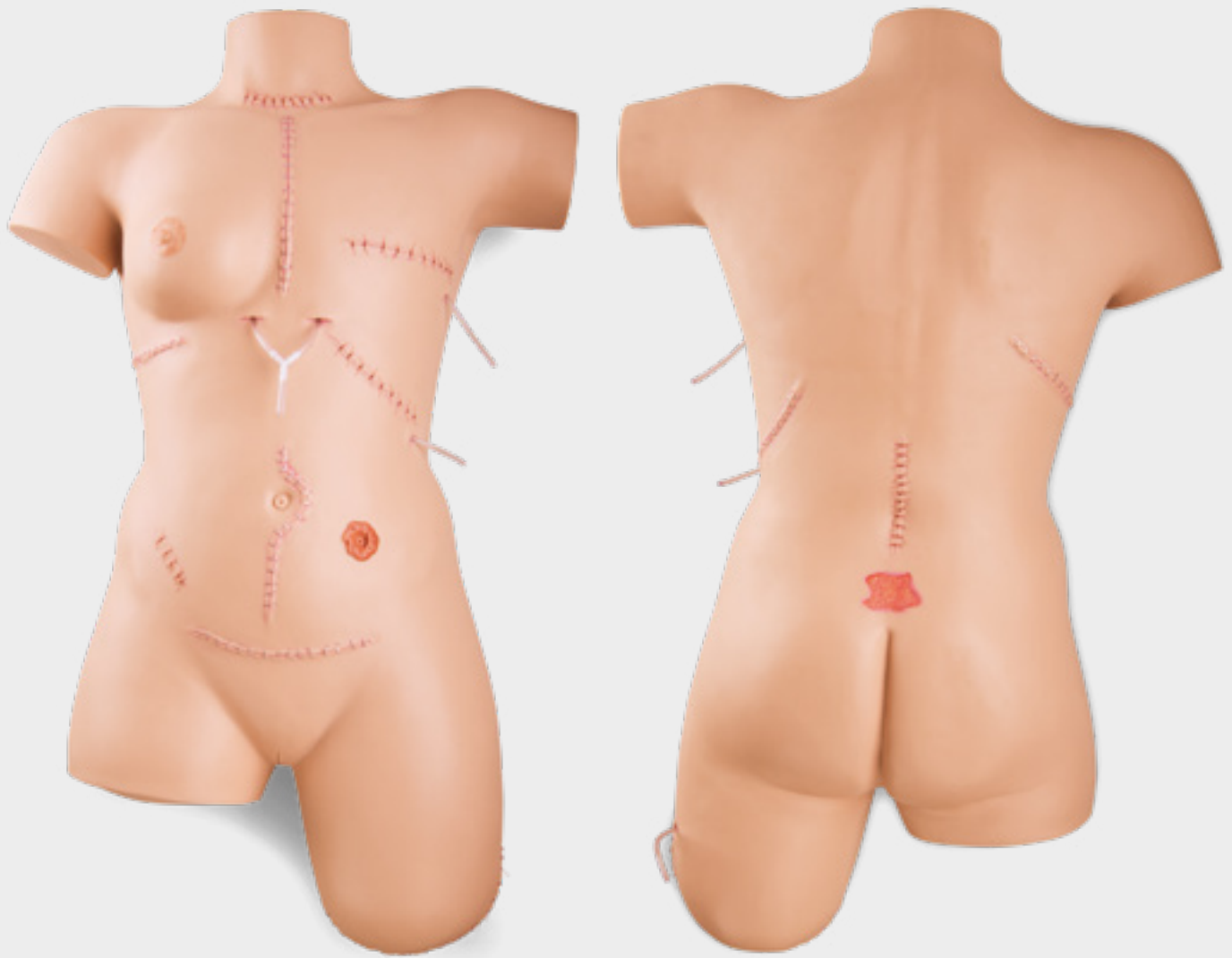
TRUBABY X

The TruBaby pediatric clinical skills training model is ideal for anesthetists, nurses & other pediatric emergency medical professionals practicing Directly Observed Practical Skills (DOPS), Pediatric Advanced Life Support (PALS) and critical emergency medicine including infant airway management and more.

TruBaby X is incredibly lifelike with the appearance, weight, size and movement of a 5-month-old infant.

Light Skin Tone	1022795
Dark Skin Tone	1023267





► TRAIN WOUND CARE ON A REALISTIC MANIKIN

3B SCIENTIFIC® TRAINER FOR WOUND CARE AND BANDAGING TECHNIQUES P100

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).

1020592

➤ EVERYTHING STARTS WITH EXERCISE

3B SCIENTIFIC® SKIN SUTURE TRAINER P22

The Skin Suture Trainer by 3B Scientific perfectly replicates the anatomical structure of human skin layers including the epidermis, dermis and hypodermis to create a realistic haptic experience of touch for the trainee.

Light Skin Tone	1024494
Dark Skin Tone	1024495



➤ APPLY THE WOUND ANYWHERE ON THIS ARM AND PRACTICE SUTURING HUNDREDS OF TIMES!

3B SCIENTIFIC® SUTURE TRAINING ARM P101

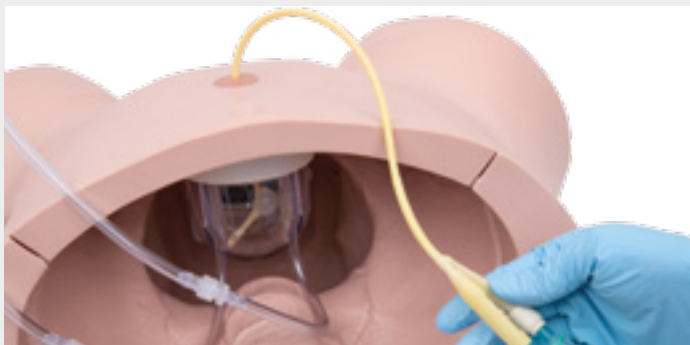
The 3B Scientific® Suture Training Arm offers the possibility for suture training that is a lot more complex than with regular suture pads. Additionally, each wound can be sutured several times, making this trainer very economic.

- 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

Light Skin Tone	1020904
Dark Skin Tone	1023312





THE PRO VERSION CAN BE USED TO PRACTICE
SUPRAPUBIC CATHETER EXCHANGE AND CARE.

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 narrowing positions

Light Skin Tone ♀	1023008
Dark Skin Tone ♀	1023324

Light Skin Tone ♂	1023009
Dark Skin Tone ♂	1023325

Light Skin Tone Set ♀♂	1023010
Dark Skin Tone Set ♀♂	1023326



➤ **AFFORDABLE SKILL TRAINER FOR REALISTIC MALE AND FEMALE URINARY CATHETERIZATION!**

CATHETERIZATION SIMULATOR SET BASIC

With the basic catheterization trainer, both male and female catheterization can be demonstrated, practiced and assessed. The interchangeable genitalia are anatomically correct and made from realistic material. The foreskin and labia are soft and pliable, so that all necessary steps (like disinfecting the area) can be practiced.

- Magnetic easy-to-change genital inserts
- Easy to clean and maintain
- Transparent bladder so you can observe the success of the procedure
- Level of difficulty adjustable

Light Skin Tone Set ♀♂ 1020842
Dark Skin Tone Set ♀♂ 1023323



Catheterization Simulator BASIC, female

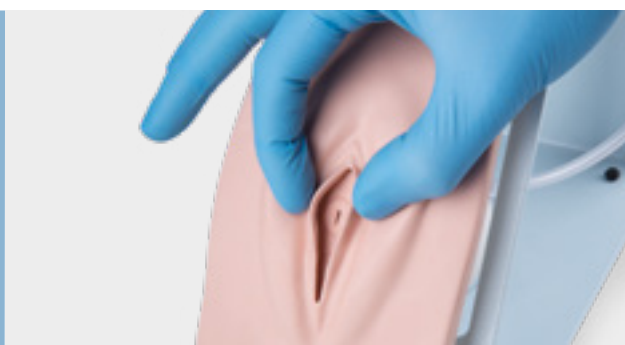
- Female catheterization with realistic resistance
- Soft and movable labia
- Liquid outflow if catheterization is successfully carried out

Light Skin Tone ♀ 1020231
Dark Skin Tone ♀ 1023321

Catheterization Simulator BASIC, male

- Male catheterization with realistic resistance
- 3 levels of adjustable narrowing of urethra
- Soft and movable foreskin
- Liquid outflow if catheterization is successfully carried out

Light Skin Tone ♂ 1020232
Dark Skin Tone ♂ 1023322



> 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
- Use for training and performance evaluation
- 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



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.

Light Skin Tone 1000511
Dark Skin Tone 1023766



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.

Light Skin Tone 1000514
Dark Skin Tone 1023767

> 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

Light Skin Tone 1010008
Dark Skin Tone 1023300

➤ PERFECT VOLUNTEER TO PRACTICE I.V. INJECTION

I.V. INJECTION ARM P50/1

This injection arm made of 3B Scientific® SKIN//ike™ 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 bleeding sampling (basilic 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 Tone	1021418
Dark Skin Tone	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.

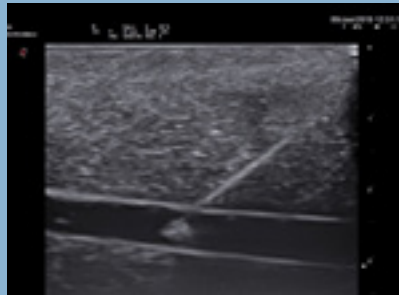
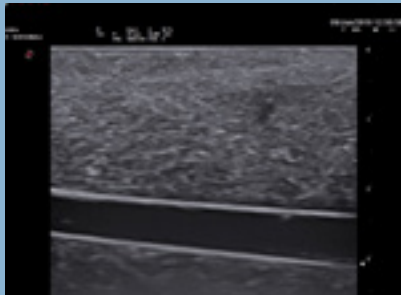
- Each individual unit is completely self-contained and can be used out of the box
- Units are stackable to save space
- Self-sealing for repeated use and therefore cost effective
- Replacement blocks and all accessories are available separately
- The 3B Scientific® SONOtrain™ series has been designed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

1019637



Copyright Dr. Mario Sica





SONOtrain™ BREAST MODEL WITH TUMORS

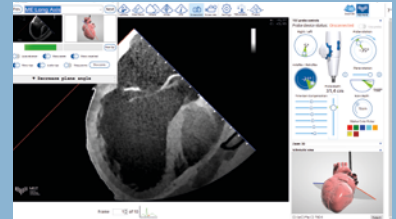
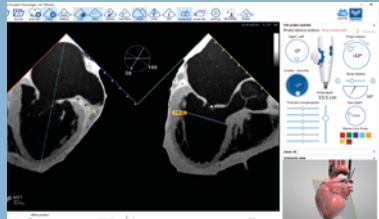
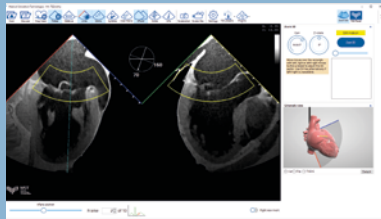
Realistic reproduction of a breast made from ultrasound material with three tumours for realistic punctures and biopsies.

1019635



More SONOtrain™ models include:

SONOtrain™ Vein Model	1019637
SONOtrain™ Foreign Body Model	1019636
SONOtrain™ Gallbladder Model	1019638
SONOtrain™ Breast Model with Cysts	1019634



➤ REALISTIC TRAINING OF INDIVIDUAL CASES TO

MrTEEmothy® Transesophageal Echocardiography Simulator

Transesophageal echocardiography (TEE) is a difficult, semi-invasive examination which requires experience in probe manipulation. MrTEEmothy® is an effective solution for training students, residents, cardiologists, anesthetists, and intensive care specialists who want to obtain and perfect TEE skills without causing unnecessary harm to patients. MrTEEmothy® advantages and innovation were confirmed by a European patent (EP2538398).

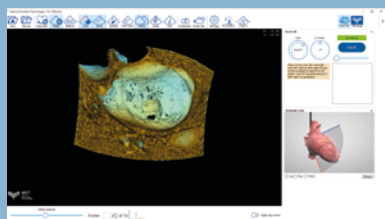
MrTEEmothy® STANDARD

Transesophageal Echocardiography Simulator

The simulator MrTEEmothy® Standard is composed of a phantom and a TEE probe, connected to a dedicated laptop (included) by a USB cable.

1022128





HANDLE ANATOMICAL DIFFERENCES FROM PATIENT TO PATIENT!

MrTEEmothy® EXPERT

Transesophageal Echocardiography Simulator

The transesophageal echocardiography (TEE) simulator MrTEEmothy® Expert is composed of a phantom and a TEE probe, connected to a dedicated laptop (included) by a USB cable. Advanced software and 3D visualization were specifically developed for the CT scan dataset. The screen interface shows the components of the probe motion such as probe depth, bends, rotation or the angle of the imaging plane.

Training Benefits:

- Operating trackball, buttons and knobs of the USB ECHO Panel
- Learning the TEE normal and pathological anatomy
- Pointing anatomical details with color markers positioned in three-dimensional space
- Practicing optimal acquisition and recording of standard TEE views
- Performing measurements and interpretation of individual pathology

1022130



➤ **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.

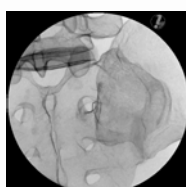
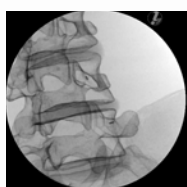
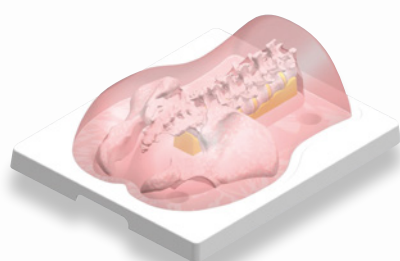
Developed in cooperation with Dr. Markus Schneider, Bamberg

- 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



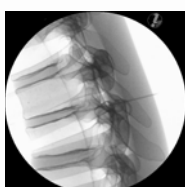
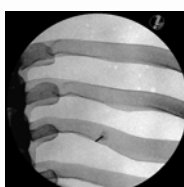
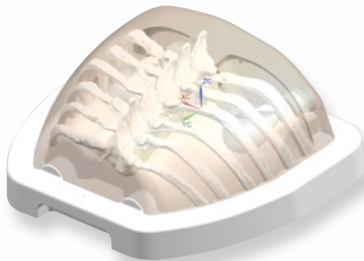
LUMBAR SPINE P65

1021898



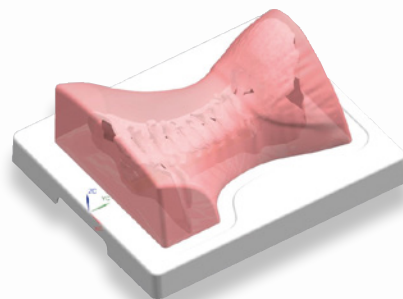
THORACIC SPINE P66

1021899



CERVICAL SPINE P67

1021900



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

➤ A LEAP FORWARD IN ANESTHESIA TRAINING!

EPIDURAL AND SPINAL INJECTION TRAINER P61

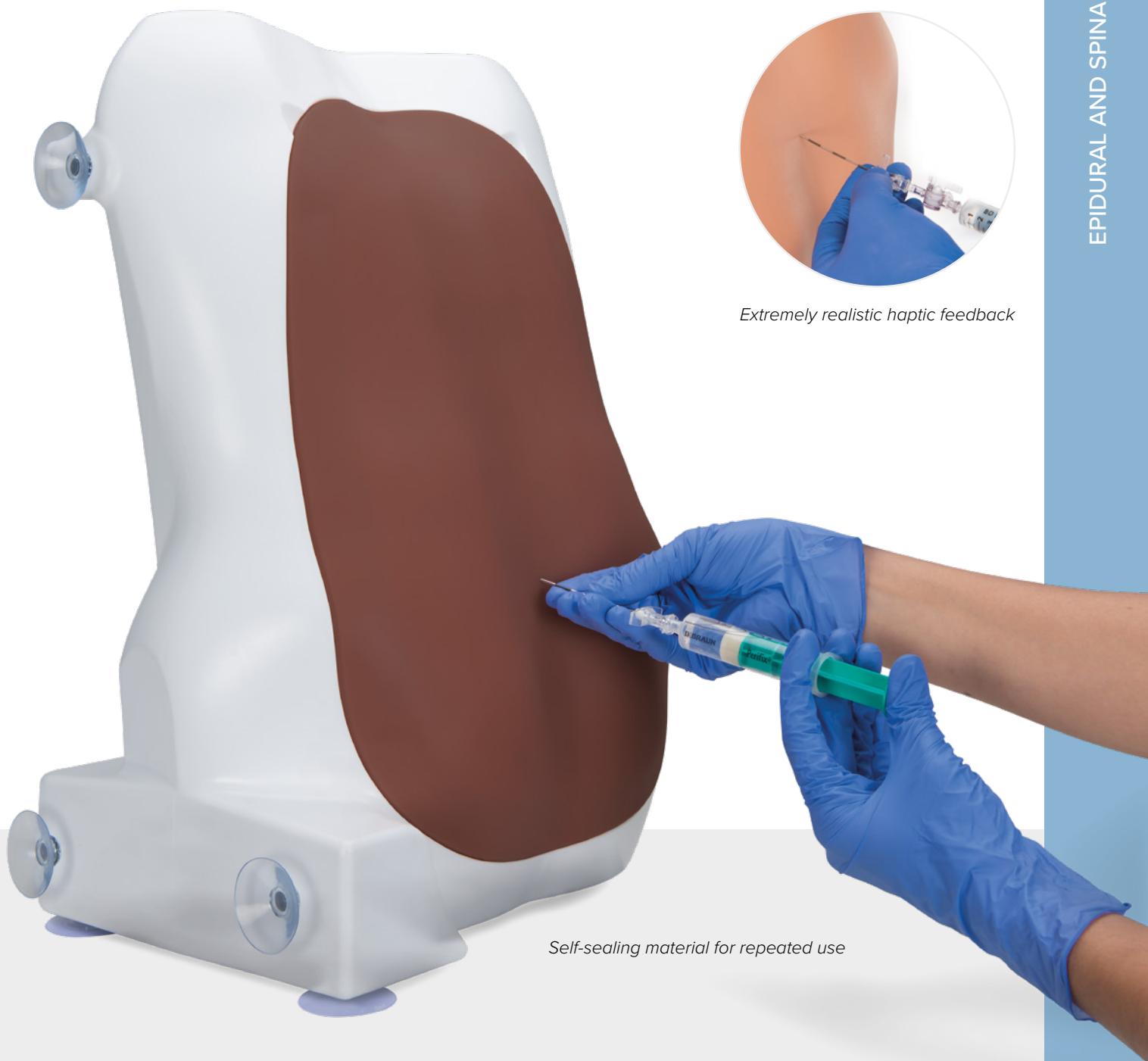
Train the localization of the epidural space without ultrasound to administer epidural and spinal injections. You can easily adjust the trainer to simulate different pathologies. The training with realistic haptic feedback and correct anatomical landmarks is the basis for a successful preparation for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

Light Skin Tone	1017891
Dark Skin Tone	1023765





Extremely realistic haptic feedback

Self-sealing material for repeated use

➤ 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

1020800



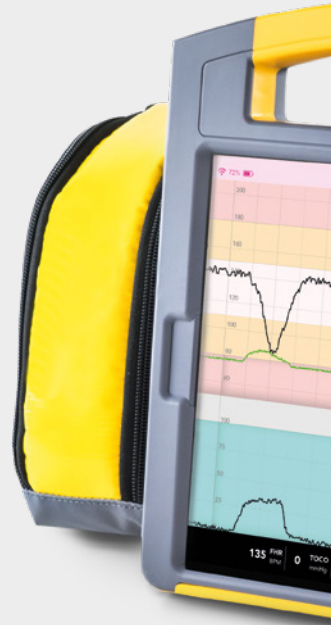


OBSTETRICS

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. 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

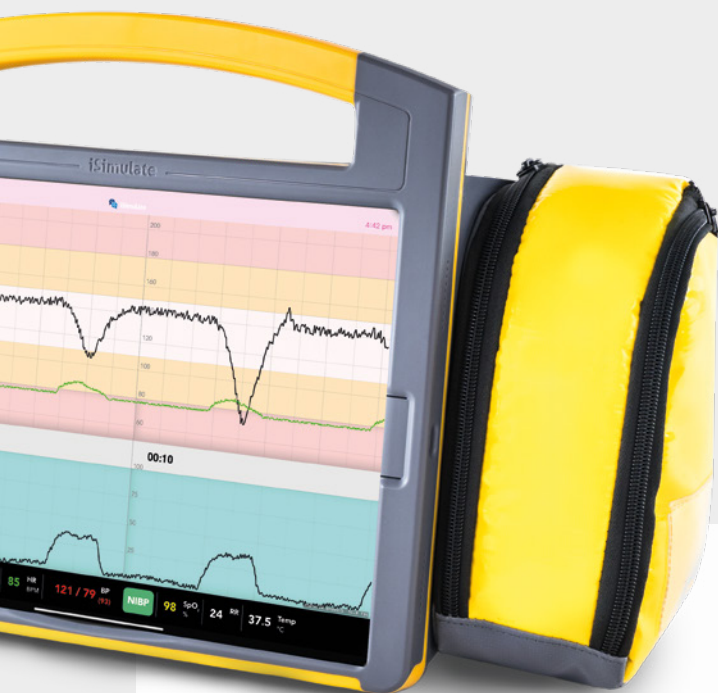
3B Scientific offers many different obstetric simulators and birthing phantoms as well as newborn manikins to practice neonatal resuscitation. All medical staff that is involved in obstetrics – doctors, nurses, and midwives – benefit from obstetric simulation as such, but also from training together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



➤ A HIGHLY ADVANCED AND REALISTIC FETAL HEART RATE MONITOR SIMULATOR



58



FETAL HEART RATE MONITOR SIMULATOR CTGi

The ease of use and intuitiveness of CTGi helps facilitate in-situ training requiring cardiotocograms (CTG's). 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.

Features of the CTGi Fetal Heart Rate Simulator by iSimulate:

- 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
- Advance your training: Turn a low fidelity situation into high fidelity simulation. Name, save and replay scenarios and traces for teaching!

1022818



Fetal Heart Rate

Tocograph

Monitor



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:

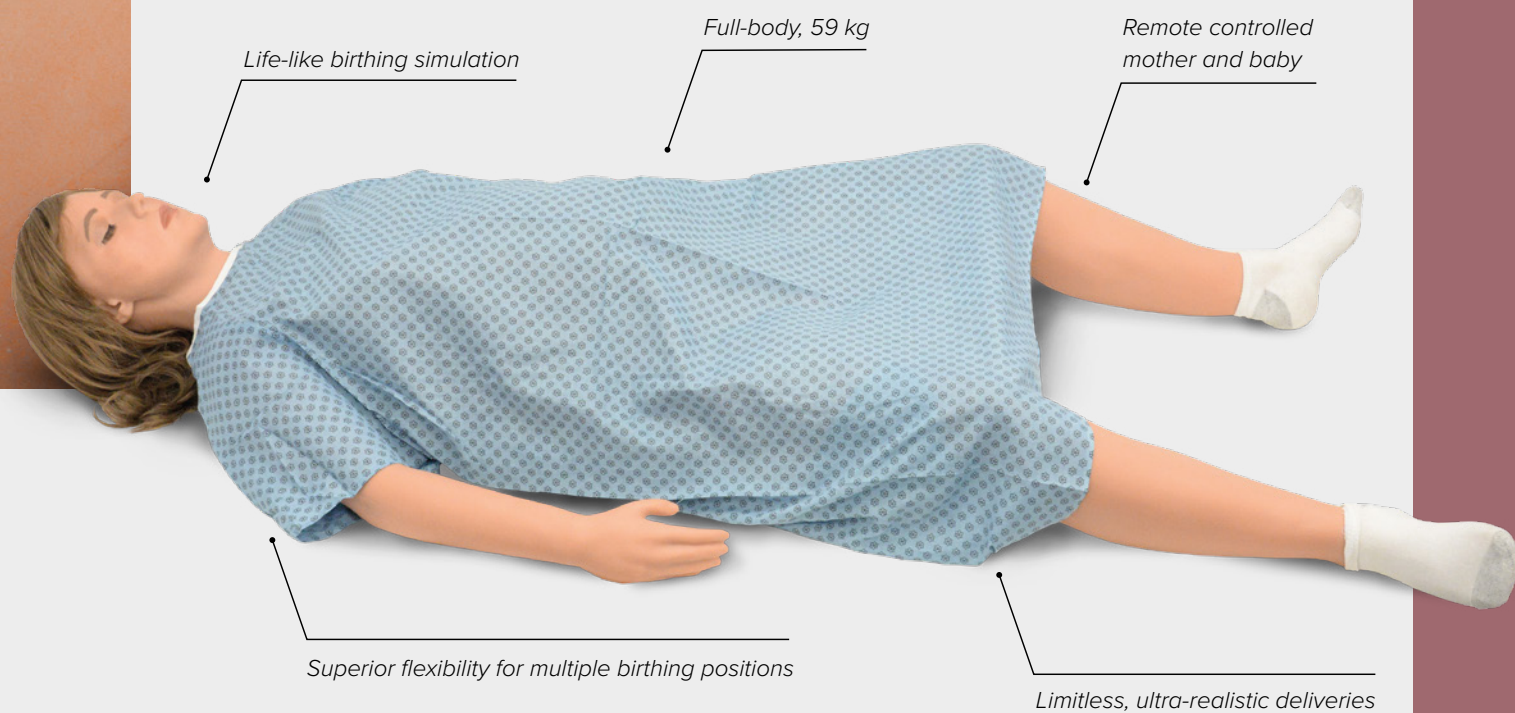
- Vaginal delivery training
- Remote controlled birthing scenarios
- Postpartum Hemorrhage Control
- A birthing manikin for realistic vaginal delivery training
- Easy to set up – ready to use

1022179

60



► THE WORLD'S MOST NATURAL AND REALISTIC VAGINAL BIRTHING SIMULATOR



AVAILABLE IN DIFFERENT SKIN TONES:



C-CELIA™ EMERGENCY OBSTETRICS SUITE

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

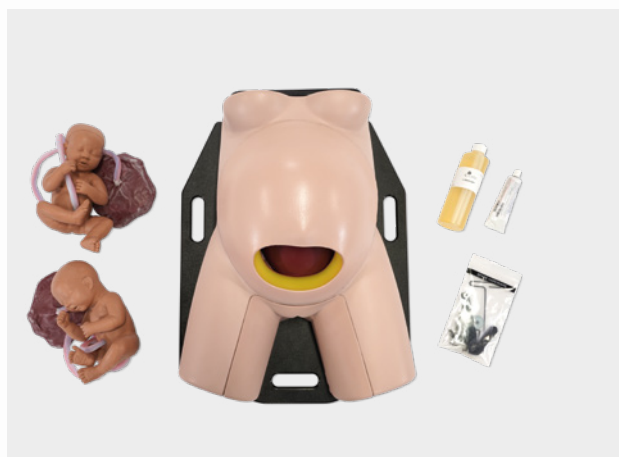
➤ **BE READY TO DISCOVER THE WORLD'S ONLY
BIOFIDELIC TECHNOLOGY THAT DELIVERS A TRUE
HANDS-IN-THE-BODY SURGICAL EXPERIENCE**





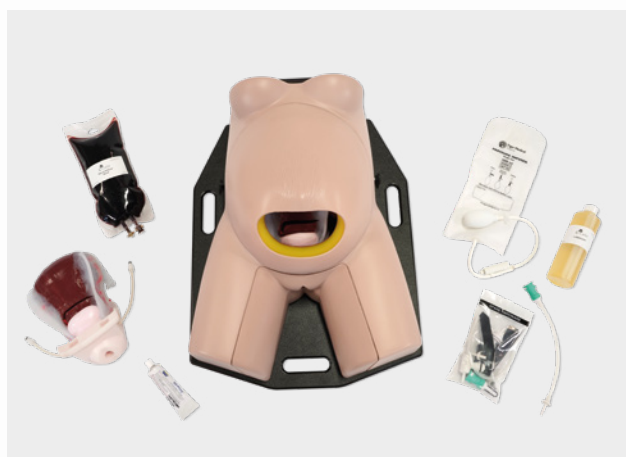
Emergency C-Section & Delivery Trainer

1022567



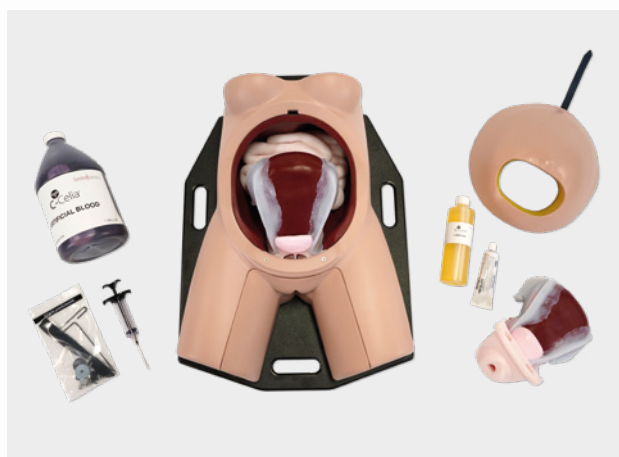
C-Section Fetal Extraction Trainer

1022559



Postpartum Hemorrhage (PPH) Control Trainer

1022561



Cesarean Emergency Hysterectomy Trainer

1022564

AVAILABLE IN DIFFERENT SKIN TONES:





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



Easy to clean genital insert



Forceps delivery



Vacuum-assisted delivery

SIMone™

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

1019599

> SIMULATE HIGH-STRESS BIRTHING SCENARIOS WITH THE AWARD-WINNING SIMone™

Examples of interventions and findings:



Body
Temperature



Blood
Pressure



Laboratory
Values



Amniotic
Fluid
Quantity



Urine
Screening
Test



Fetometry



Placenta
Examination



Ask the
Patient
Questions



Send
Patient
Home

Medicinal options:



Misoprostol



Prostaglandin



General
Anesthetic



Paracetamol



Methyldopa



Ceftriaxone



Ringer
Solution



NaCl



➤ OBSTETRIC SIMULATION TO ENHANCE TRAINING EFFECTS

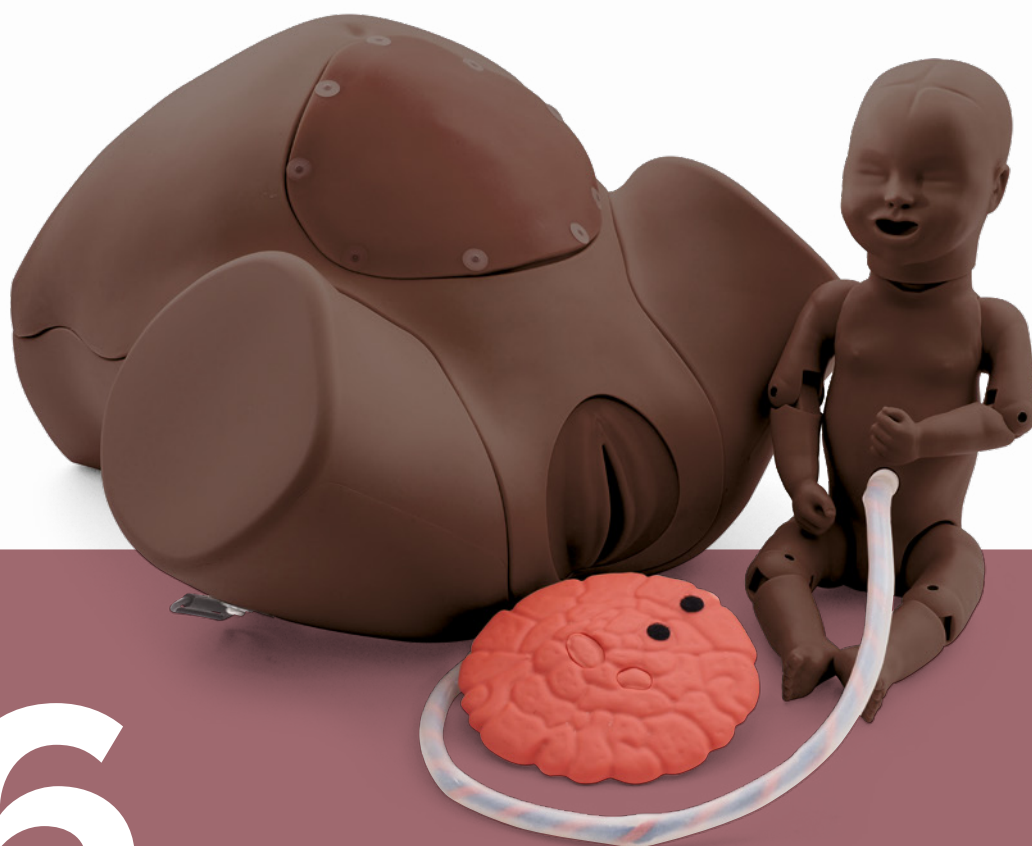
BIRTHING SIMULATOR P90 PRO

The birthing simulator offers extremely realistic training features. It was developed specifically for the skill training in normal and complicated deliveries as well as for obstetric emergency training.

Assessment and manipulation of fetal positions:

Using the simulator, trainees will learn how to detect abnormal positions and presentations, and how to use manual techniques to assist the birthing process. Training of manual birthing maneuvers (like Leopold or Pinard's) can be trained so that correct measures will be applied during complicated deliveries. Furthermore, the trainee will learn when to apply obstetric emergency interventions (like a cesarean section).

Light Skin Tone	1022879
Dark Skin Tone	1023328



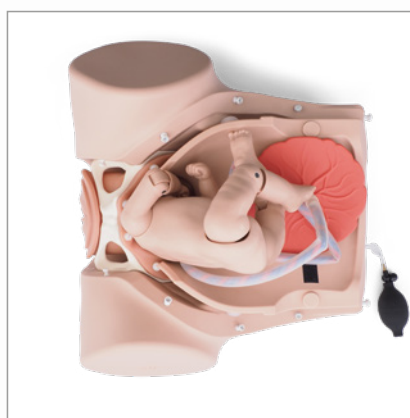
*P90 PRO**P90 BASIC*

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.

Light Skin Tone **1022878**

Dark Skin Tone **1023327**



The 3B Scientific® Birthing Simulator P90 BASIC can be upgraded to the PRO version with the Upgrade Kit.

SKINlike™ high-quality silicone

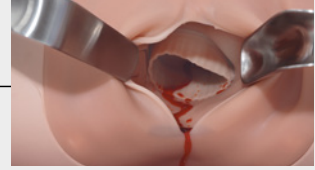
Cervix bleeding
Realistic postpartum cervix



Vaginal bleeding
Suturable vaginal tears



Uterus bleeding
Adjustable uterine tone



Delivery of a retained placenta



POSTPARTUM HEMORRHAGE SIMULATOR P97 PRO

If you are looking for a PPH trainer that is compact, easy-to-use and durable, the PPH simulator P97 PRO from 3B Scientific is the ideal solution to provide hands-on and realistic training sessions for early recognition, systematic evaluation and treatment of postpartum hemorrhage.

The PPH simulator focuses on the following three postpartum bleeding causes:

- Uterine atony (Tonus)
- Laceration and rupture (Trauma)
- Retained tissue from the placenta (Tissue)

1023727



68



NEW BLOOD POWDER FOR ARTIFICIAL BLOOD OF REALISTIC CONSISTENCY AND FEEL, SEE PAGE 06 FOR DETAILS 1023954.



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

Light Skin Tone 1019639
Dark Skin Tone 1023329



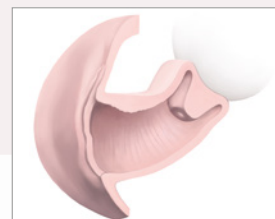
BIRTHING STAGES TRAINER P94

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).

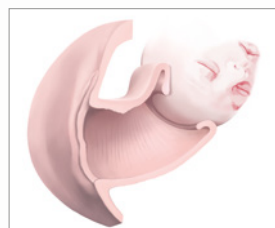
The benefits of using Birthing Stages Trainer P94:

- 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.

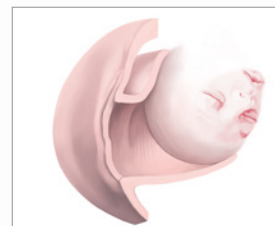
Light Skin Tone 1020628
Dark Skin Tone 1023330



*Cervix closed (0.5 cm),
level -2*

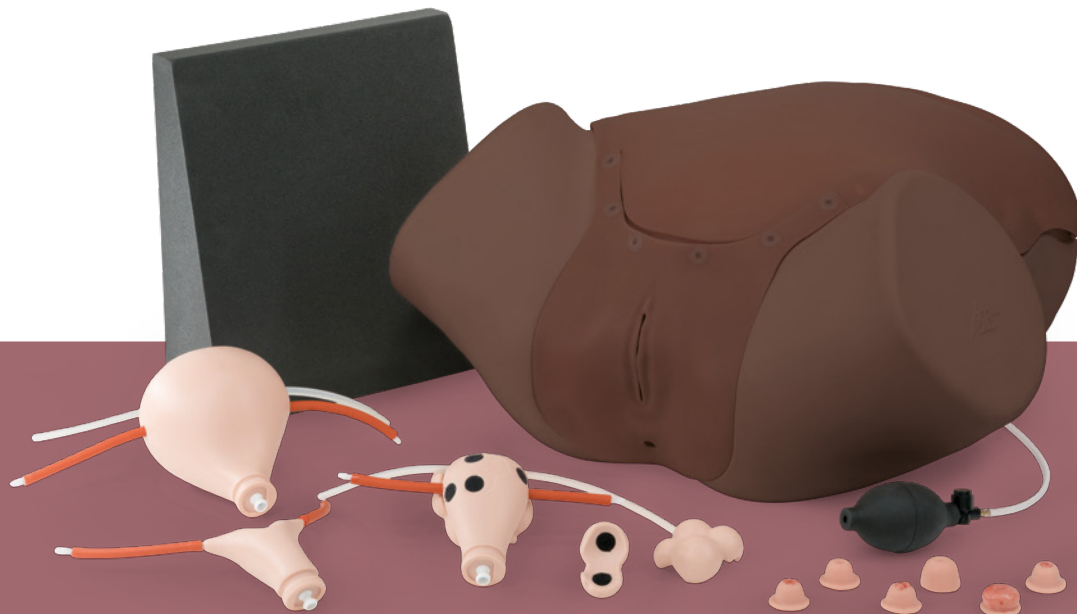


*Cervix open 3 cm, half
effaced, level -2*



*Cervix open 10 cm,
effaced, level 0*





➤ PERFECT HANDS-ON ADDITION TO ANY GYNECOLOGY SKILLS CURRICULA

GYNECOLOGICAL SKILLS TRAINER P91

The Gynecological 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 cervixes for visualization with speculum
- Normal Fallopian tubes are removable and replaceable by abnormal fallopian tubes with an ectopic pregnancy

Light Skin Tone 1021592
Dark Skin Tone 1023305



Practice didactic catheterization



Tenaculum Practice

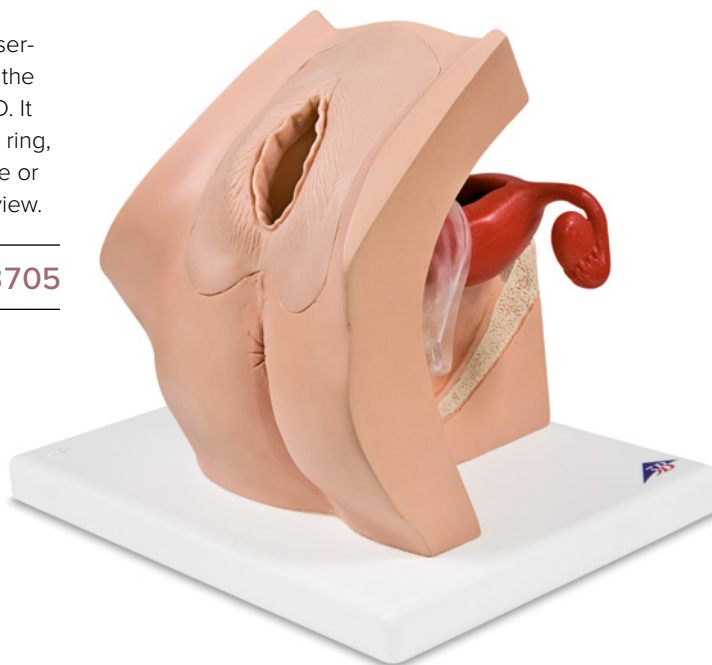


Use of real gynecologic tools

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.

1013705



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

Light Skin Tone with Aluminium Carrying Case	1000342
Light Skin Tone without Aluminium Carrying Case	1000343
Dark Skin Tone with Aluminium Carrying Case	1023307
Dark Skin Tone without Aluminium Carrying Case	1023308





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.

Light Skin Tone	1000346
Dark Skin Tone	1023302





➤ 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



➤ EASY AND QUICK INSTALLATION!

LAPARO ADVANCE

Advance Training Station

Independent training station with integrated touch-screen and foldable stand with height and worktop adjustment. Wheels with brakes allow to move the trainer fully, worktop has cutouts to hold instruments. Comes with a fully integrated touch-screen computer, box trainer, set of 6 modules and 4 laparoscopic instruments.

1021835



LAPARO ADVANCE

Expert-Set

Laparoscopic trainer with built-in camera and LED light, which can be connected to any computer. Comes with a box trainer, set of 6 modules and 5 laparoscopic instruments.

1024108

LAPARO ADVANCE

Portable

Comes with a box trainer, set of 6 modules and 5 laparoscopic instruments. The set also includes a computer with an all-in-one touch screen mounted on the arm.

1023658

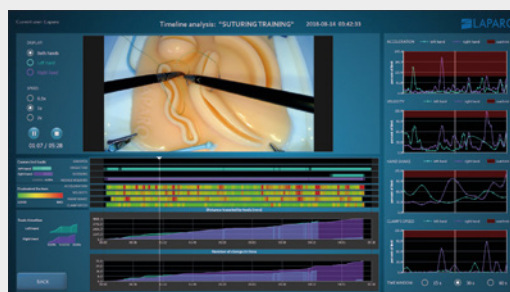


LAPARO ANALYTIC

Laparoscopic Surgical Skill Trainer with Full Training Analysis

Laparo Analytic is one-of-a-kind laparoscopic trainer with an automated training analysis and progress report for the fundamental skills and techniques of laparoscopic surgery. Every student's training is saved as a video for further evaluation and the performance results are used to create individual learning curve reports.

1021836



➤ CLOSE-TO-REALITY EXPERIENCE WHILE TRAINING LAPAROSCOPIC PROCEDURES ON CLINICAL INSTRUMENTS

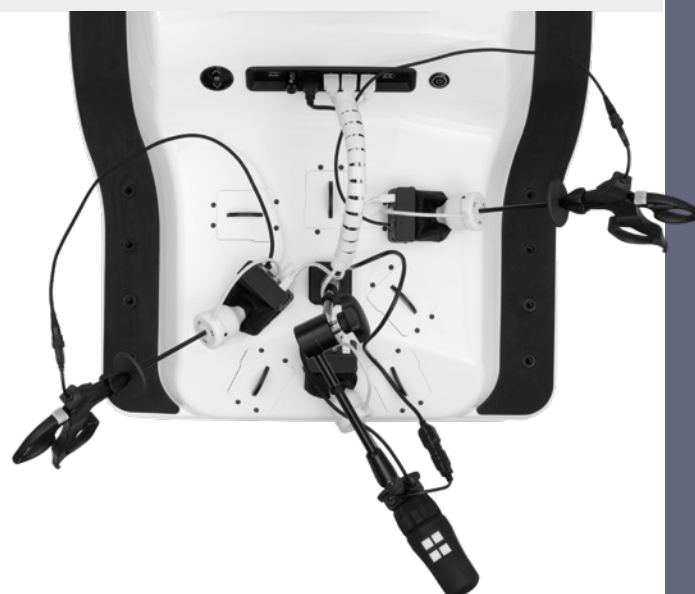
LAPARO APEX VR

Mixed Reality Laparoscopic Simulator

Apex is a hybrid Laparoscopic trainer that combines virtual reality with physical skills training. Despite its complexity, the trainer offers extremely simple and intuitive manual skills and procedures training, a wide selection of training modules, scenarios for conducting training in virtual reality and a number of tutorials that guide the user step by step as one would do with a personal trainer.

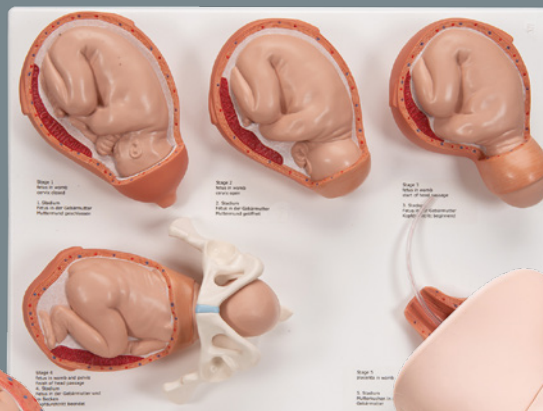
While physical training is necessary to develop the workshop of manual skills, virtual reality helps in learning surgical procedures such as coagulation, clipping etc. while reflecting the conditions that arise during these procedures.

1023756

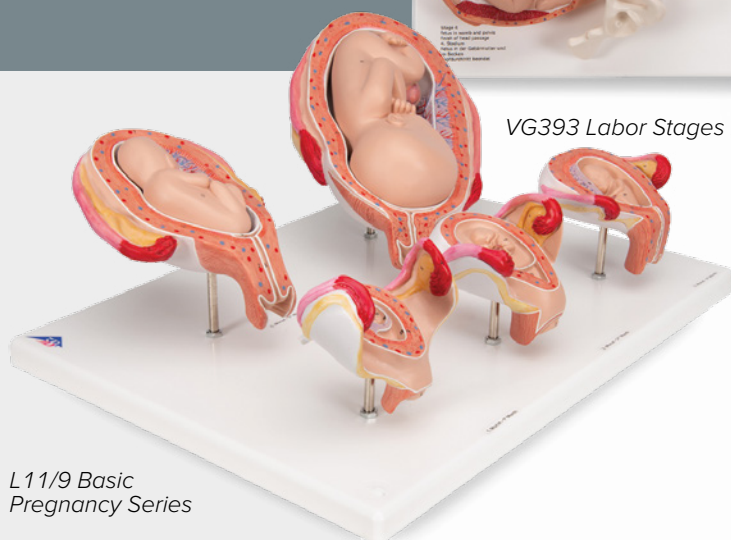


i NEW - LAPARO APEX PRO (1025090, NOT SHOWN)
THE HYBRID LAPAROSCOPIC SIMULATOR WITH WHICH YOU CAN EVEN TRAIN PEDIATRIC SURGERY - AS A UNIQUE SOLUTION ON THE MARKET.

> SIMULATION KITS – BUY TOGETHER AND SAVE!



VG393 Labor Stages Model



*L11/9 Basic
Pregnancy Series*



*P90B Basic
Birthing Simulator*

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. Every original 3B Scientific® Anatomy Model gives you direct access to its digital twin on your smartphone, tablet or desktop device. Download the new **3B Smart Anatomy app** and step into the virtual world of Human Anatomy.

8000877

➤ 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

8000883



> GREAT FOR ANY ANESTHESIOLOGY PROGRAM!

ANESTHESIOLOGY LAB SET

The Anesthesiology Lab Set 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 3B Smart Anatomy. To unlock the benefits, simply scan the label located on your model.

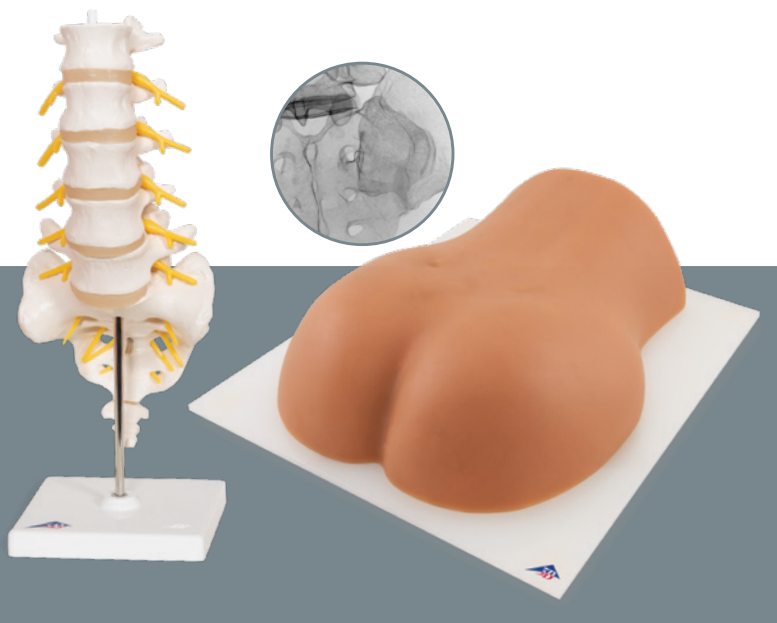
8000874



P61 Epidural & Spinal Injection Sim

A74 Lumbar Spinal Column

L20 Pregnancy Pelvis



*A74 Lumbar Spinal
Column Model*

*P65 Image Guided Lumbar
Spinal Injection Trainer*

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.

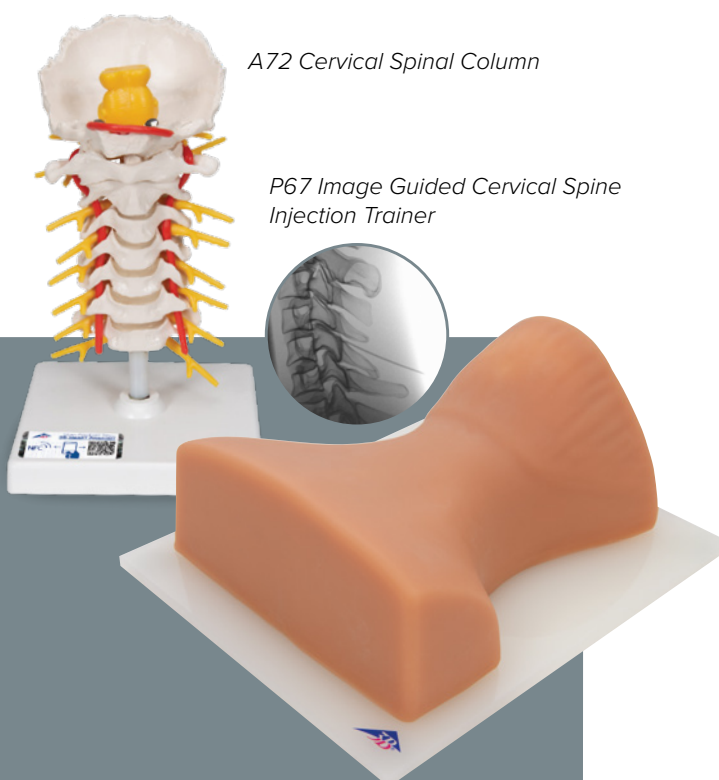
Features:

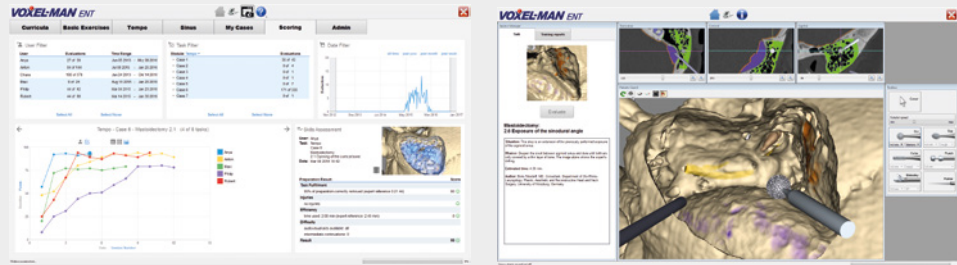
- Self-Sealing material can be used repeatedly for injection training
- Life-like radiopacity for realistic X-ray images
- Completely portable with a secure transport box
- Durable construction, easy to clean
- Free access to 3B Smart Anatomy

Lumbar Spine	8000890
Cervical Spine	8000891

A72 Cervical Spinal Column

*P67 Image Guided Cervical Spine
Injection Trainer*





VOXEL-MAN ENT VIRTUAL REALITY SIMULATOR

Voxel-Man ENT is a complete Virtual Reality (VR) Surgical Simulation System for temporal bone dissection available either as a Basic or as a Full System. The Full System allows the simulation of Endoscopic sinus surgery.

Advantages of the Voxel-Man VR Training Systems:

- Safe training environment with objective skills assessment
- Predefined training cases and natural variabilities and pathologies
- Training of surgical approaches and manual dexterity
- Authorization of training cases and tasks
- Independent validation studies
- Reduced costs for surgical training lab

ENT Basic System	1022079
ENT Full System	1022080



80



► MONITOR AND COMPARE YOUR PROGRESS OVER TIME!

VOXEL-MAN DENTAL FULL SYSTEM

Virtual reality training in dentistry. The dental VR simulation features teeth and instruments visualized on a 3D screen, both one and two-handed operation of instruments, a database of different pathologies, automatic skills assessment and monitoring of progress.

1022081

➤ 3B SMART ANATOMY CLOSES THE GAP BETWEEN DIGITAL AND ANALOG ANATOMY EDUCATION

ANATOMY GOES MOBILE WITH 3B SMART ANATOMY

➤ REGISTRATION IS FREE, EASY AND SECURE

Every original 3B Scientific® Anatomy Model opens direct access to its virtual twin on your smartphone, tablet or desktop – anytime and anywhere.

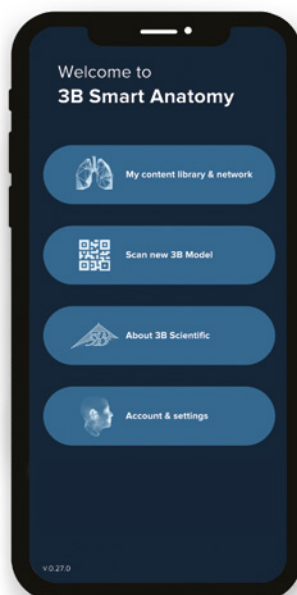
Start 3B Smart Anatomy to:

- Test your skills in anatomy quizzes
- Use the commenting function to add notes to your digital model
- Access your files both online and offline



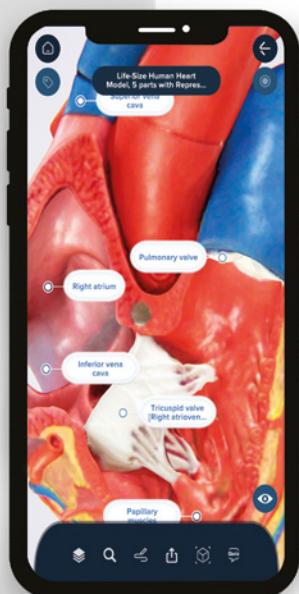
SCAN TO LEARN MORE ABOUT
3B SMART ANATOMY AND OUR MODELS.

82



Simple main menu allowing easy navigation to all options and functions, for example:

- Access to your personal image library and network
- Scan function which allows you to scan your 3B Scientific® Model and unlock its virtual content
- About your Account and personal settings

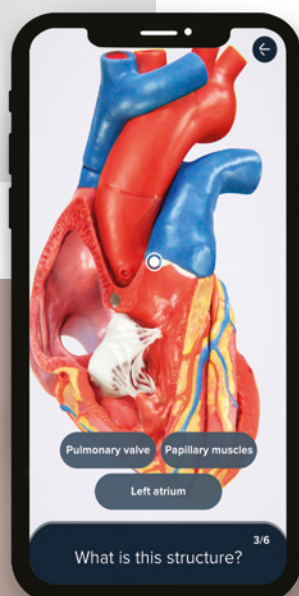


Once you have opened the 3D virtual content, you have access to a variety of useful tools:

- Image rotation / zoom in / zoom out
- Call up of anatomical structures (in multiple languages)
- Drawing and Note function allows you to customize your personal view with additional useful information
- Augmented Reality function
- Quiz function to test and improve your anatomical knowledge



You can view and manage your 3B Scientific® Models and their virtual content at any time in your personal library.



Test your personal anatomical knowledge with the Quiz function:

- With instant results
- Final score evaluation

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842 48 Bratislava

web: **www.skola.sk**
email: **obchod@skola.sk**
tel.: **0918 533 645**



INTRODUCING ATLAS JUNIOR: ELEVATE PEDIATRIC ALS TRAINING WITH A FULLY MOBILE, WIRELESS SOLUTION THAT REDEFINES REALISM AND SEAMLESSLY INTEGRATES WITH REALITI 360 FOR MODERN MEDICAL TRAINING.