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**Clean Bleed™ Mat**

**70400**

By increasing realism, we develop true to life responses.

Designed to support any simulation scenario where external blood or fluid loss is a key indicator and measure of emergency interventions taken, such as gunshot wounds, post-partum hemorrhage or post-operative bleeds.

**How does it work?**

- No mess
- Controllable fluid flow
- Easy to set up
- Re-usable

**KEY FEATURES & BENEFITS**

- No mess, no fuss, easy set up
- Unique sealed blood flow, heightening the realism of simulation scenarios for more accurate training
- Controllable flow of blood
- Portable and durable for use both indoors and outdoors
- Suitable for use with simulated patients, task trainers and full body manikins
- Can be used to simulate a range of fluids
- Cost effective – re-usable pads and blood save time and money

**SKILLS**

- Visual inspection or body assessment
- Identification and assessment of the speed and color of the bleed or flow
- Assessment of the speed and relevance of the initial trainee interventions
- Assessment of the ongoing patient condition and impact of prior interventions on the patient
- Quantify blood loss (QBL)
The **Clean Bleed™ Mat** is independent of any training system and can be used alongside both simple and complex training models (as well as simulated patients) for use in simulation.

**Designed to support different scenarios**

- **Simulated Patient**
- **Task Trainer**
- **Full Body Manikin**

**Easy to clean up?**

Post simulation, the pump mechanism can be reversed to remove the majority of the blood back into the fluid reservoir. The residual blood within the pad can be manually drained away or washed for repeat use.

**Can I use my own pads?**

The design of the mat bag allows the use of a standard sized inco/chux pad (60 x 90 cm).

**Where would I use it?**

Any scenario or clinical procedure where the external flow of blood (or any other fluid) is a critical signal to act and intervene. The flow of blood can be measured either visually, or by weighing.

- High flows: vaginal trauma (including PPH); abdominal, chest and neck trauma; loss of limb and post-operative bleeds.
- Low flows: head or peripheral trauma; post-operative bleeds; meconium fluid.

The **Clean Bleed™ Mat** is independent of any training system and can be used alongside both simple and complex training models, as well as simulated patients, for use in simulation.
Clinical Female Pelvic Trainer (CFPT) Mk 3 - Standard & Advanced

The CFPT Mk 3 is an anatomically accurate and tactile representation of the female pelvis. It is the ideal platform for hands-on examination as well as diagnosis of female conditions and minor pathologies. It can be used for many levels of training from undergraduate onwards, as well as in family health.

Validated in the

SKILLS

- Recognition of perineal and pelvic anatomy including bony landmarks
- Digital vaginal examination
- Bi-manual examination
- Cervical smear procedure (including use of speculum)
- Digital rectal examination
- Professional-to-patient communication

QUALITIES

ANATOMY

- Abdomen, pelvis and genitalia
- Vagina, cervix, anus and lower bowel
- Advanced model comes with interchangeable uterine modules with different complications
- Modules:
  - Normal - Nulliparous Cervix
  - Large Fibroid - Nulliparous Ectropion Cervix
  - Small Fibroid - Nulliparous Polyp Cervix
  - Ovarian Cyst - Multiparous Cervix
  - Retroverted - Multiparous Cervix
  - 10-12 Weeks Pregnant
  - 14-16 Weeks Pregnant

REALISM

- Abdominal wall with fat layer makes palpation realistic
- Labia can be parted realistically
- Each uterus is presented at the correct anatomical angle

KEY FEATURES

- Partial thighs aid anatomical orientation
- Soft and strong perineum and labia

VERSATILITY

- Abdominal wall can be removed quickly and easily
- Modules can be changed quickly and easily

SAFETY

- Latex free

CLEANING & CARE

- Skin surface is washable using soap and water
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Our Breast Examination Trainer provides a highly realistic learning platform for acquiring the skills required to perform Clinical Breast Examination (CBE).

Featuring 6 readily interchangeable and multi-positional pathologies, providing healthcare professionals with the tools to identify various complications and pathologies, including carcinomas, cysts, fibrocystic disease and fibroadenoma.

Both simulated patient and bench top training can be used in alignment with healthcare professionals promoting best practice techniques to trainees and patients, or for any undergraduate programs running OSCEs.

This product was developed in close collaboration with leading clinicians:
- Mr. Peter Donnelly, Torbay Hospital, UK
- Clinical Skills Resources Centre, University of Liverpool, UK
- Clinical Practice Centre, St James’s University Hospital, Leeds, UK

**QUALITIES**

**ANATOMY**
- Realistic soft tissue breast anatomy
- Pathologies supplied: carcinomas: 2cm, 3cm, 5cm, cyst, fibrocystic disease, fibroadenoma

**REALISM**
- Soft tissue breasts look and feel realistic
- Clavicular and axilla pads for accurate lymph node placement

**KEY FEATURES**
- Pathologies can be placed in various predetermined location points and are easily changeable
- Dual purpose product: bench top and Simulated Patient
- Hard torso available for bench top use

**VERSATILITY**
- Comfortable to wear for long periods of time during OSCEs and assessments

**SAFETY**
- Latex free

**CLEANING & CARE**
- Skin surface is washable using soap and water
FEMALE EXAMINATION - BREAST

OPTIONAL EXTRAS

• Clinical Breast Examination (CBE)
• Self Breast Examination (SBE)
• Identification of anatomical landmarks
• Identification of lymph nodes (axillary, supra & infraclavicular)
• Location and diagnosis of pathologies
• Professional-to-patient communication

PATENTS GRANTED:
• US6336812
• EP099027
• DE69804793
• CA 2293585
• ZL98806331
• HK1023832
• 755575 Australia

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OPTIONAL EXTRAS

40209 Medium Carry Case

Soft tissue breasts look and feel realistic
Pathologies fit securely into supports
Clavicular and axilla pads for accurate lymph node placement
Self Breast Examination training

PATENTS GRANTED:
• US6336812
• EP099027
• DE69804793
• CA 2293585
• ZL98806331
• HK1023832
• 755575 Australia
Clinical Male Pelvic Trainer (CMPT) Mk 2 - Standard & Advanced

An ideal platform for teaching and learning hands-on male pelvic examination and diagnosis.

The user-friendly design, combined with clear anatomic landmarks and a range of male conditions and pathologies creates a realistic training experience for students across all levels of healthcare education from undergraduate level upwards.


Developed in collaboration with:
- The Clinical Skills Resource Center, University of Liverpool, UK
- Imperial College, London, UK
- Guy’s Hospital, London, UK
- Southmead Hospital, Bristol, UK
- University of Southampton, UK

SKILLS
- Correct examination procedure of male pelvis
- Examination and evaluation of:
  - Normal anatomy
  - Testicular abnormalities
  - Abdominal and pelvic pain
- Dry catheterization
- Professional-to-patient communication

QUALITIES

ANATOMY
- Abdomen, pelvis and genitalia
Anatomy of the groin with clear anatomical landmarks:
  - Anterior Superior Iliac Spine (ASIS)
  - Pubic symphysis and tubercles
Genitalia includes:
  - Penis (both circumcised and non-circumcised)
  - Scrotum (containing testicles with epididymis and vas deferens)
Pathologies (Advanced model only):
  - Varicocele
  - Testicular tumor and penile cancer
  - Epididymal cyst
  - Hydrocele
  - Orchitis/Epididymo-orchitis
  - Indirect inguinal hernia

REALISM
- Soft tissue genitals and abdominal wall

VERSATILITY
- Soft tissue inserts can be removed and replaced
- Can be used in 2 positions (standing and supine)

SAFETY
- Modules 5 & 7 contain latex

CLEANING & CARE
- Skin surface is washable using soap and water
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CMPT: Clinical Management Practice Training

Normal: Normal
Varicocele: Varicocele
Tumors: Testicular Tumors & Penile Cancer
Epididymal Cysts: Epididymal Cysts
Hydrocele: Hydrocele
Orchitis/Epididymo-orchitis: Orchitis/Epididymo-orchitis
Indirect Inguinal Hernia: Indirect Inguinal Hernia
Abdominal Insert: Abdominal Insert
Pubic Bone: Pubic Bone
Foreskins Pack: Foreskins Pack
Lower Torso: Lower Torso
Support Base: Support Base
LED Pen Torch: LED Pen Torch
Carry Case: Carry Case

(x2) indicates the product is included twice.
The Rectal Examination Trainer offers realistic, repeatable training in the core skill of digital rectal or PR examination. Both models include a contractible anal sphincter, allowing for anal tone assessment and a fecal impaction clip in module.

The **Standard** model focuses on learning core rectal nursing procedures and excludes the pathologies.

The **Advanced** model comes with a range of prostates and 2 perineums, allowing trainees to become familiar with normal and abnormal findings and acquire key diagnostic skills.

External ano-rectal illustrations are ideal for incorporation into scenarios and OSCE assessments.

### SKILLS

- Digital examination of the anus, rectum and prostate
- Assessment of anal tone
- Identification of fecal matter in the rectum
- Identification of external ano-rectal conditions*
- Professional-to-patient communication
- Insertion of rectal medication (micro enemas, suppositories)

### ANATOMY

- Buttocks, anus, rectum, prostate and perineum
- Pathological perineum – with polyp and rectal cancer*
- 4 abnormal prostates*:
  - Benign unilateral enlarged
  - Benign bilateral enlarged
  - Unilateral carcinoma
  - Bilateral carcinoma

### REALISM

- Soft, partable buttocks
- Realistic anus with resting tone and ability to contract

### KEY FEATURES

- Simulation of sphincter contraction allows trainees to assess anal tone
- Interchangeable prostates can be quickly and easily inserted, out of sight of the trainee*
- Left lateral positioning
- Addition of impacted fecal matter allows trainees to recognize and distinguish this common finding
- High quality illustration pack of 9 external anal conditions

### VERSATILITY

- Trainer can also be presented in ‘semi-standing’ position using the optional **Standing Position Stand** (60172)

### SAFETY

- Latex free

### CLEANING & CARE

- Skin surface is washable using soap and water
## Male Examination - Rectal

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**OPTIONAL EXTRAS**

- 60172 Standing Position Stand
- 40209 Medium Carry Case
Abdominal Examination Trainer

An anatomically accurate adult male torso, used to teach and practice the palpation, auscultation and percussion elements of abdominal or gastrointestinal (GI) examination.

With interchangeable organs of varying sizes, and an integral MP3 player providing realistic sounds, the trainer provides the ability to recognize and differentiate a range of abnormal organs and pathologies.

Ideal for OSCE preparation and assessment.

SKILLS

- Familiarity with the abdominal regions and underlying anatomy
- Practice in abdominal palpation, auscultation and percussion
- Ability to differentiate normal from abnormal anatomy
- Identification of ascites, specifically shifting dullness and fluid thrill
- Identification of gaseous distension and bowel obstruction
- Ballottement of kidneys
- Professional-to-patient communication

EXAMPLES OF SET UP FOR SCENARIOS

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14
QUALITIES

REALISM
• Organs feel realistic on palpation and respond appropriately to percussion
• Lifelike quality of abdominal skin accommodates stretching for gaseous distension and ascites simulation
• Realistic ballottement of enlarged kidney

VERSATILITY
• Abdominal skin is simple to remove, allowing quick and easy changeover of organs
• Suitable for both bench top use and hybrid use with simulated patient
• Model can be rolled onto side for examination of ascites and shifting dullness

KEY FEATURES
• Interchangeable organs and pathologies of varying sizes can be quickly and easily inserted into the abdomen
• Trainer or simulated patient can vary respiratory movement of liver and spleen by the turn of a wheel
• Integral amplifier and surface mounted MP3 player allow training in auscultation of normal and high-pitched or obstructed bowel sounds, renal and aortic bruits - in variable locations
• Volume of bowel sounds can be adjusted and MP3 player allows for additional sounds to be loaded
• Distension set allows for the following:
  - Realistic checking for ascites using percussion, shifting dullness or fluid thrill technique
  - Simulation of bowel obstruction on percussion and auscultation
• Pulse bulb allows simulation of normal and aneurysmal aortic pulse

SAFETY
• Latex free

CLEANING & CARE
• Skin surface is washable using soap and water

ANATOMY

• Torso featuring abdomen, pelvis and lower part of thorax
• Bony landmarks include ribs, costal margin, xiphisternum, pubic crest and anterior superior iliac spines
• 3 Livers: slightly enlarged, enlarged with smooth edge and enlarged with irregular edge
• 2 Spleens: slightly enlarged and markedly enlarged
• 2 Enlarged Kidneys
• Distended Bladder
• 2 Aortas: normal and aneurysmal
• Set of 6 Abdominal Pathologies includes:
  - 4 Smooth masses: 2 sizes, each with hard and soft version
  - 2 Irregular hard masses
• Distension Set includes:
  - Ascites bag
  - Gaseous distension bag, pump and foam insert
• Simplified representation of lower thoracic & lumbar spine

WHAT’S INCLUDED

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>Abdominal Examination Base Unit</td>
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<tr>
<td>Abdominal Examination Skin</td>
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<tr>
<td>Abdominal Examination Rectus Bag</td>
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<tr>
<td>Abdominal Examination Organ Locator</td>
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<tr>
<td>Abdominal Wall</td>
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<tr>
<td>Abdominal Examination Livers (Set of 3)</td>
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<tr>
<td>Abdominal Examination Spleens (Set of 2)</td>
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<tr>
<td>Abdominal Examination Kidneys (x2)</td>
</tr>
<tr>
<td>Abdominal Examination Bladder</td>
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<tr>
<td>Abdominal Examination Pathologies (Set of 6)</td>
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<tr>
<td>Abdominal Examination Aortas (Set of 2)</td>
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<tr>
<td>Abdominal Examination - Distension Set</td>
</tr>
<tr>
<td>International 5V DC Power Supply</td>
</tr>
<tr>
<td>AA Batteries (x4)</td>
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<tr>
<td>Carry Case (x2)</td>
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</tbody>
</table>
A realistic trainer for teaching and practicing the use of an ophthalmoscope, examining the ocular fundus and identifying diseases and conditions within the eye.

Various cases can be set up for trainees using combinations of slides, depth and pupil diameter. Soft and supple material allows hands-on simulation of real examination procedures, such as raising the eyelid.

Head is mounted on a sturdy lightweight plastic base.
QUALITIES

ANATOMY

• Head, neck and shoulders
• Anatomically correct soft ear model with external acoustic meatus and tympanic membrane

REALISM

• Ear model allows training in straightening the auditory canal by pulling the auricle
• The neck can be tilted to allow proper head positioning

KEY FEATURES

• Warning against painful insertion with or without beep
• 9 major clinical cases are prepared:
  - Normal
  - Serous otitis media (SOM)
  - Mucoid otitis media (MOM)
  - Chronic otitis media with perforation
  - Acute suppurative otitis media (AOM)
  - Cholesteatoma
  - Tympanosclerosis
  - Traumatic perforations
  - Cerumen block
• Foreign body removal set supplied. Includes simulated earwax, small toys and small sponge fragments

VERSATILITY

• Examination possible on both left and right ears
• Suitable for use with all otoscopes
• 4 matching sets of right and left ears
• 2 sizes of ear canal for all cases
• Cases can be switched over easily by using the dial on the back of the mode

SKILLS

• Ear examination with an otoscope (not supplied)
• Diagnosis of up to 9 cases
• Earwax and foreign body removal

WHAT’S INCLUDED

Manikin head & shoulders
4 Pairs of ear units:
• Examination ear (normal)
• Foreign body ear (normal)
• Examination ear (stenosis)
• Foreign body ear (stenosis)
Foreign body removal kit
Carry case

A life-size model of the ear including external acoustic meatus and tympanic membrane, for training in examination of the ear with an otoscope and foreign body removal. It offers two modes of use: instructor mode, which is particularly useful for OSCE or skills examination, and self-learning mode.

The model warns against painful insertion in the ear by beeping and displaying a warning light to the assessor.

A yellow light indicates when the tip of the otoscope reaches the bony part of the ear canal, and a red light indicates when it touches the eardrum.
“Physiko Plus” Physical Assessment Simulator

Allowing a complete physical examination, the model teaches students to anticipate, describe and identify physical examination findings.

New modules with contrasting scenarios have been developed in collaboration with the University of Illinois at Chicago.

Physiko features 12 pre-set examples of outpatients designed to cover typical complaints, facilitating training in assessment procedures, assessment skills as well as hands-on knowledge regarding important abnormal findings. You can also create patients that address the unique needs of your local curriculum.

SKILLS
- Assessment procedures and skills for abnormal findings
  - Pupillary reflex assessment
  - Blood pressure measurement
  - Auscultation of breath, heart and bowel sounds

QUALITIES

ANATOMY
- 12 pre-set typical outpatient complaints
- Can be adapted to specific curriculum needs

REALISM
- Physical Examination Skills Training mode features:
  - 4 pupillary reflex conditions: normal, pupillary dilation, pupillary constriction, bilateral asymmetry
  - Blood pressure can be set as required
  - 8 breathing auscultation sounds: normal lung, weak left lung, absent in the right lung, bronchial breathing, coarse and fine crackles, wheezes, rhonchi
  - 18 heart auscultation sounds: S2 split absent, S2 split present, S3 and S4 gallop, innocent murmur, aortic stenosis, mitral regurgitation and stenosis, aortic regurgitation, sinus tachycardia and bradycardia, atrial fibrillation and flutter, premature ventricular contraction (single), ventricular flutter and fibrillation, cardiac sound regulation
  - 5 bowel auscultation sounds: normal, increase, decrease, subileus, ileus
  - 10 EKG simulations: normal, atrial fibrillation and flutter, premature ventricular contraction, ventricular tachycardia, ventricular flutter and fibrillation, myocardial infarctions at acute, subacute and chronic stages

VERSATILITY
- System has 3 modes:
  - Physical Assessment Mode 1 - pre-set patient cases
  - Physical Assessment Mode 2 - editor mode using supplied data to create new scenarios
  - Physical Examination Skills training - hands-on training asymmetry
- Physical Assessment Mode includes:
  - Chest Pain:
    Male: 58 yr with Myocardial Infarction
    Female: 76 yr with Lung Infarction
  - Abdominal Pain:
    Male: 19 yr with Diarrhea
    Female: 26 yr with Ileus Pain
  - Unconscious:
    Female: 36 yr with Brain Hypertension
  - Shortness of Breath:
    Male: 66 yr with Chronic Obstructive Lung Disease
    Female: 84 yr with Pneumonia

SAFETY
- Latex free

CLEANING & CARE
- Washable using soap and water

WHAT'S INCLUDED
- Life size manikin
- Laptop PC
- Terminal box
- Sphygmomanometer unit
- EKG electrodes unit
- Set of clothes
For over 30 years, Limbs & Things has collaborated with clinicians, educators and stimulation experts to bring the best training equipment to life. To ensure we continue to deliver products that support your current and future training needs, we will soon be launching our own insights community. This collaboration space is somewhere we can hold meaningful conversations, generate feedback on new ideas and get your views on the trends that are going to shape the clinical, educational and simulation worlds in the future.

If you are interested in being part of this insights community and would like to learn more, let us know by scanning the QR code.

We will be in touch as soon we’re ready to go live.

Please be assured that registering any interest does not mean any commitment from you to participate at this stage.
VENIPUNCTURE ARMS

The Venipuncture Arms Range provides the ideal training platform for practicing the skills related to venipuncture and IV cannulation.

Suitable for undergraduate and postgraduate level training.

Basic Venipuncture Arm

- Designed with a basic vein structure, this model contains basilic and cephalic veins only.

Basic Venipuncture Arm

70304 70305

Standard Venipuncture Arm

- For cost effective training the modular vein system contains ACF and metacarpal vein anatomy.

Standard Venipuncture Arm

70302 70303

Advanced Venipuncture Arm

- The Advanced Venipuncture Arm features ACF vein anatomy which is connected to a pressurized fluid system for a realistic blood supply.

Advanced Venipuncture Arm

70300 70301

Our patented skin locking mechanism ensures the model is easy to re-skin whilst maintaining the lifelike haptics of the underlying and fully palpable basilic, cephalic and dorsal metacarpal veins.

* PCT/GB2021/052719
**SKILLS**
- Venipuncture
- IV Cannulation
- IV Infusion
- Practice of aseptic technique

**QUALITIES**

**REALISM**
- Realistic blood flashback
- More realistic arm look and feel
- Gripping system provides true-to-life vein placement

**KEY FEATURES**
- Realistic and palpable vein haptics promote accurate clinical use
- Easy-to-fit skin-locking system (patent pending*) increases anatomical realism
- New vein gripping feature facilitates correct vein positioning, repeatable training and an easier re-skimming process
- Enables the application of digital pressure to stem blood flow
- Infusion tube allows for IV fluids to be administered
- Can be used in conjunction with a simulated patient

**VERSATILITY**
- Compatible with vacuum blood collection systems, needle & syringe, and IV cannulas
- Durable skin
- Extended tubing allows for simulated patient in a classroom setting
- Veins can withstand up to 500 stabs from a 21g needle
- Arm can be upgraded through purchase of modular veins and the Advanced Pressurized Pump

**SAFETY**
- Basic, Standard and Advanced veins contain latex
- Latex free Basic vein is available but durability is decreased

**CLEANING & CARE**
- Easy to clean, service and maintain

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**FEATURES**

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This soft tissue strap-on pad can be used to train in venipuncture and represents the antecubital fossa of the right arm.

**SKILLS**
- Professional-to-patient communication
- Recognition of the vein pattern through palpation
- Insertion of a needle and cannula
- Management of blood flow

**QUALITIES**

**KEY FEATURES**
- Ideal for professional-to-patient communication and scenario based training using a Simulated Patient
- Strap onto the antecubital fossa of the arm
- Veins are: self-sealing for repeated use, rechargeable via a one-way valve, supplied with mock blood under pressure and replaceable

**VERSATILITY**
- Only use Mock Blood - Venous (250ml) (00223) to refill these veins

**SAFETY**
- Tough backing plate to prevent needlestick injuries
- Veins contain latex

**CLEANING & CARE**
- Replaceable epidermis
- Washable using soap and water

**WHAT'S INCLUDED**
- Vein for ACF Pad
- Epidermis for ACF Pad
- Pad Base with Strap

This soft tissue strap-on pad features 3 straight veins, one of which is pediatric size.

**SKILLS**
- Professional-to-patient communication
- Insertion of a needle
- Insertion of cannula
- Management of blood flow

**WHAT'S INCLUDED**
- Vein for Three Vein Pad
- Epidermis for Three Vein Pad
- Pad Base with Strap

Extended ACF Pad - Venipuncture

This soft tissue pad is supplied on a base for bench top training in venipuncture and insertion of cannulae. It represents the antecubital fossa of the right arm. Improved, unidirectional skin texture.
**Cutdown Pad**

**00280**

A multi-layered pad containing filled veins for practicing venous cutdown procedure.

**SKILLS**

- Palpation to locate vein position
- Incising tissue layers
- Inserting a cannula
- Vein injection both distally and proximally
- Tying off veins

**QUALITIES**

**ANATOMY**

- Improved, unidirectional skin texture
- Layers simulate the epidermis and subdermal layers
- 3 straight veins (each 150mm long) filled with mock blood

**KEY FEATURES**

- Only use Mock Blood - Venous (250ml) (**00223**) to refill these veins

**VERSATILITY**

- The veins can be used by multiple trainees if tied off after each use

**SAFETY**

- Veins contain latex

---

**Concentrated Venous Blood**

**00020**

**STARTER PACK**

**00021**

**REFILL**

The Concentrated Venipuncture Blood has been formulated to greatly improve the leak resistance of veins. A synthetic solution dilutes to the correct color and viscosity of venous blood. For some vacuum collection systems, you may wish to dilute further.

The Starter Pack offers value for money and enables the mock blood to be stored after use.

Makes 2.5 liters of mock blood. Non staining.

**WORKS WITH**

- Venipuncture Arm Range
- Postpartum Hemorrhage Kit
- Clean Bleed™ Mat

---

**Mock Blood - Venous**

**00223**

250ml of synthetic solution made to the correct color and viscosity of venous blood.

---

**Mock Blood - Arterial**

**60653**

250ml of synthetic solution made to the correct color and viscosity of arterial blood.
This trainer facilitates practice of radial artery puncture for blood collection and artery catheterization.

**SKILLS**
- Palpation of radial artery
- Needle insertion
- Blood collection
- Radial arterial line placement
- IABP connection

**QUALITIES**

**REALISM**
- Arterial pulse is palpable
- Soft tissue and artery wall provide realistic needle resistance

**KEY FEATURES**
- Pressure of pulse is variable
- Flashback can be observed

**VERSATILITY**
- Puncture sites not visible after use
- One-touch, leak free connectors

**CLEANING & CARE**
- Easy clean product
- Skin, pad and artery tube are replaceable

**WHAT’S INCLUDED**
- Skin Sets (Inner & Outer)
- Silicon Belt
- Artery Tubes (x4)
- Wrist & hand model with circulation pump
- Jar of blood powder with beaker & spoon
- Plastic jars (x2)
- Connection tubes (x2)
- Air bulb
- Vinyl sheet
- Case

---

Our soft tissue injection pad is designed for practicing intradermal, subcutaneous and intramuscular tissue injection techniques.

The Injection Trainer has multiple tissue layers representing the epidermis, dermis, fat and muscle layer, and can easily attach to an arm or thigh to help teach professional-to-patient communication.

**SKILLS**
- Subcutaneous injection
- Intradermal and intramuscular injection
- Management of tissue
- Professional-to-patient communication

**QUALITIES**

**ANATOMY**
- Epidermis, dermis, fat and muscle

**REALISM**
- Tissues are soft and warm to the touch

**KEY FEATURES**
- Epidermis layer peels back to quickly release subcuticular liquid

**VERSATILITY**
- Strap for hybrid simulation

**SAFETY**
- Latex free

**CLEANING & CARE**
- Durable replaceable epidermis

**WHAT’S INCLUDED**
- Skin Pad & Muscle Block
- Epidermis for Injection Trainer (x2)
- Strap-on base plate
- Soft tissue tray with liner
**Ultrasound Vascular Access Trainer**

60530

An echolucent and contoured slab with representation of the jugular vein for teaching needle insertion under ultrasound.

**SKILLS**

- Use of ultrasound technology
- Handling ultrasound transducers
- Insertion of needles under ultrasound guidance
- Handling and management of guidelines and catheters under ultrasound
- Recognition of vessels using ultrasound

**QUALITIES**

**REALISM**

- Echolucent material provides realistic ultrasound image

**KEY FEATURES**

- Vein is self-sealing for repeated use and rechargeable with water via a one-way valve
- Designed to be used on the bench top

**VERSATILITY**

- Fluid volume and pressure can be changed in the vessel to represent variability in patient circulation, providing various levels of difficulty for needle insertion

**SAFETY**

- Veins contain latex

**WHAT’S INCLUDED**

- Ultrasound Vascular Access Slab
- Ultrasound Vascular Access Vein
- Base
- 10ml syringe

---

**Ultrasound CVC Insertion Simulator Mk 3**

KKM93C

A realistic model for teaching cannula approaches and the insertion of central venous catheters into the superior vena cava, with and without ultrasound guidance.

**SKILLS**

- Use of ultrasound technology
- Identification of key landmarks, including the clavicle, sternocleidomastoid muscle and the internal carotid artery
- Navigation of needle under ultrasound and recognition of correct vessels
- Subclavian, supraclavicular, axillary and internal jugular approach to catheterization

**QUALITIES**

**ANATOMY**

- Internal jugular vein & carotid artery
- Subclavian vein & artery
- Superior vena cava
- Ribs
- Clavicle
- Sternum
- Lung

**REALISM**

- Echolucent material provides realistic ultrasound image

**KEY FEATURES**

- Vein is self-sealing for repeated use and rechargeable with water via a one-way valve
- Designed to be used on the bench top

**VERSATILITY**

- Fluid volume and pressure can be changed in the vessel to represent variability in patient circulation, providing various levels of difficulty for needle insertion

**SAFETY**

- Veins contain latex

**WHAT’S INCLUDED**

- Male upper torso manikin
- CVC pads (x2)
- Transparent anatomical block
- Skin for cannulation training
- Mock blood powder sachets
- Air bulb
- Plastic jars (x2)
- Irrigation bottle
- Syringe
- Sample needle
TruPICC

**TCTPIC100**

TruPICC is an adult male training arm designed for effective training in ultrasound-guided PICC line and IV placement training, helping to develop skills associated with needle placement, guidewires and catheters using ultrasound.

**SKILLS**

**Ultrasound guided PICC Line Insertion**

- Full catheter PICC Line placement and Seldinger techniques
- Realistic visualization of the vascular anatomy of an arm including the brachial artery, and the brachial, cephalic, basilic and median cubital veins
- Upper chest features the superior vena cava to verify correct catheter placement using ultrasound

**Intravenous (IV) Cannulation Techniques**

- Realistic visualization of the median cubital, brachial and basilic veins
- Differentiation between the basilic vein and the basilic artery

**QUALITIES**

**ANATOMY**

- Anatomically accurate vascular features including the brachial, cephalic, basilic and median cubital veins, and the brachial artery

**REALISM**

- Lifelike vascular ‘tenting’ upon successful entry into the vessels

**KEY FEATURES**

- Successful procedure verification: upper chest features superior vena cava to verify correct PICC catheter placement using ultrasound
- Can be set up in less than 5 minutes
- Self-regenerating TruUltra material reduces the appearance of needle tracks to facilitate repeat practise
- Easily transportable
- Compatible with all Ultrasound machine brands
Ultrasound Guided PICC Training Simulator

A simulator for comprehensive hands-on training in Peripherally Inserted Central Catheter (PICC) line insertion and removal under ultrasound guidance.

SKILLS
- Patient positioning
- Puncture site selection
- Ultrasound-guided venous access
- Seldinger technique
- Peel-away cannula technique
- Advancement of the cannula into the SVC

QUALITIES

ANATOMY
- Male upper torso with right arm
- Internal jugular, subclavian, cephalic and basilic veins
- Sternum
- Ribs
- Superior Vena Cava
- Right clavicle

REALISM
- Palpable ribs and right clavicle allow measurement of catheter length as well as providing anatomical understanding of correct PICC tip location
- Anatomically correct bifurcation of the vein in the upper chest provides realistic resistance of its outer walls and allows simulation of complications such as incorrect insertion of the catheter into the jugular, thoracodorsal or subclavian vein
- Realistic ‘flashback’ confirms successful venous access

KEY FEATURES
- Excellent image quality and visualization of the needle tip

VERSATILITY
- Movable shoulder for training in correct positioning of the arm

CLEANING & CARE
- Replaceable puncture pads

WHAT’S INCLUDED

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>Puncture Pads for Ultrasound Guided PICC Training Simulator (x2)</td>
</tr>
<tr>
<td>Upper torso</td>
</tr>
<tr>
<td>Simulated blood sticks (swab type) (x10)</td>
</tr>
<tr>
<td>Male upper torso with the right arm</td>
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<tr>
<td>Syringe</td>
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<tr>
<td>Instruction manual</td>
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<tr>
<td>Jar</td>
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<td>Storage case</td>
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</table>
The Catheterization Range facilitates the teaching of urethral and suprapubic catheterization across all levels of training. Interchangeable modules allow practice of the fundamental procedures of male and female urethral catheterization, as well as more advanced skills of suprapubic management and ultrasound guided insertion.

The anatomically accurate trainers include a supple urethra and resistant sphincter providing a closer to life training experience.

Male Catheterization Trainer

The male trainer has soft and compliant genitalia to enhance the realistic experience of catheter insertion.

Replaceable and removable foreskin.

Female Catheterization Trainer

The female trainer has soft labia allowing trainees to practice parting using the aseptic no touch technique, as well as management and care of a pre-inserted suprapubic catheter via the pre-ported bung.

Suprapubic Insertion Unit

Optional module, designed for advanced skills training, allowing trainees to master ultrasound guided suprapubic catheterization insertion.

Fits into male and female Catheterization Trainers.
SKILLS

- Correct handling of male and female anatomy
- Aseptic catheterization technique
- Withdrawal of catheter
- Urinary catheterization
- Suprapubic catheter management - female module
- Suprapubic catheter insertion (blind and ultrasound guided)*
- Ultrasound bladder scanning on a full bladder*
- Fluid management

QUALITIES

REALISM

- Supple urethra & resistant sphincter providing realistic response
- Flaccid penis and removable foreskin
- Vaginal opening and realistic urethral meatus
- Anatomically accurate bladder

KEY FEATURES

- Ability to assess the student’s progress
- Ultrasound compatible*
- Easy to set-up
- Non-drip valve
- Modular

VERSATILITY

- Easily interchangeable male, female and suprapubic catheterization modules
- Removable foreskin

SAFETY

- Trainer is latex free (catheters provided contain latex)

WHAT’S INCLUDED

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<td>Female Catheterization Module</td>
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<td>Suprapubic (Ultrasound) Catheterization</td>
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</table>

* 60852 | 60873 Only

60850 | 60851 | 60852 | 60853 | 60854 |
60870 | 60869 | 60873 | 60871 | 60872

Standard Catheterization Trainer Set

Advanced Catheterization Trainer Set
Our Chest Drain and Needle Decompression Trainer has been designed to meet the specific requirements of healthcare professionals training in surgical or guidewire-assisted thoracostomy and thoracentesis.

This product allows for a variety of chest drain insertion techniques to be performed including ultrasound-guided techniques.

**QUALITIES**

**ANATOMY**
- Representation of adult male thorax with arms raised
- Bony and soft tissue landmarks: manubriosternal joint, clavicles, ribs, pectoralis major and latissimus dorsi
- Internal ultrasound anatomy: diaphragmatic structures and collapsed lung

**REALISM**
- Can give the impression of breathing under ultrasound when using the advanced pad
- Needle decompression air reservoirs provide realistic release of air on insertion of needle

**KEY FEATURES**
- Reservoirs can be filled with fluid or mock blood to represent pleural effusion
- Bilateral chest drain and needle decompression pads

**VERSATILITY**
- Suitable for supine, sitting or leaning forwards positions
- Works with thoracic seals when using the standard pad
- Affordable replaceable pads

**SAFETY**
- Latex free

**SKILLS**
- Needle decompression of a tension pneumothorax (at both the 2nd and 5th intercostal space)
- Open, or cut-down chest drain insertion: recognition of correct position, surgical incision, blunt dissection through chest wall, perforation of pleura and finger sweep
- Suture of tube to chest wall
- Ultrasound-guided chest drain insertion (Seldinger-type), including insertion of needle under direct vision and ultrasonic recognition of chest structures
- Management of pleural effusion
CHEST TRAUMA MANAGEMENT & ATLS

**FEATURE COMPARISON**

<table>
<thead>
<tr>
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<th>STANDARD</th>
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- Ultrasoundable ✓ ×
- Use with liquids ✓ ×
- Effusion ✓ ×
- Hemothorax simulation ✓ ×
- Pleural layer ✓ ✓
- Blunt dissection ✓ ✓
- Seldinger technique ✓ ✓
- Can be sutured ✓ ✓
- Needle insertion ✓ ✓
- Guidewire insertion ✓ ✓
- Dilator insertion ✓ ✓
- Drain tube insertion ✓ ✓
- Use with adhesive dressings ✓ ✓
- Shows respiratory swing ✓ ×
- Latex free ✓ ✓

**WHAT'S INCLUDED**

<table>
<thead>
<tr>
<th>60230</th>
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<tr>
<td>Needle Decompression Pads (x2)</td>
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<tr>
<td>Advanced Chest Drain Pads (x2)</td>
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<tr>
<td>Standard Chest Drain Pads (x2)</td>
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<tr>
<td>Chest Drain Rib Frame (Left)</td>
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<tr>
<td>Chest Drain Rib Frame (Right)</td>
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<td>Chest Drain Lungs (x2)</td>
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<tr>
<td>Chest Drain Diaphragms (x2)</td>
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<tr>
<td>Chest Drain Ribs (x12)</td>
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<tr>
<td>Chest Drain Pump: Respiratory Swing</td>
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</tr>
<tr>
<td>Chest Drain Pump: Needle Decompression</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Chest Drain Slotted Retaining Knobs</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Key with keyring</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Torso</td>
<td>✓ ✓</td>
</tr>
<tr>
<td>Carry Case</td>
<td>✓ ✓</td>
</tr>
</tbody>
</table>
AirSim Advance X

Designed to provide true, anatomically correct and visually accurate internal features to allow for airway management techniques.

QUALITIES

REALISM
- Real feel skin covering for added realism ✓ ✓
- Realistic features which include: palpable cricoid landmarks, laryngeal cartilages and tracheal rings to provide positive user feedback and easy identification of the sternal notch × ✓
- Realistic feedback during airway management procedures ✓ ✓

KEY FEATURES
- Anatomically correct nasal cavity, with important landmarks such as the turbinates clearly defined ✓ ✓
- An inflatable tongue with real-life size and texture ✓ ✓
- Optional subcutaneous fat tissue to demonstrate more difficult tracheostomy and cricothyroidotomy procedures × ✓
- A wraparound replaceable neck skin which facilitates up to 20 incisions thus improving efficiency × ✓

SKILLS
- Double naso-tracheal intubation ✓ ✓
- Bag and mask ventilation techniques ✓ ✓
- Full range of supraglottic devices ✓ ✓
- Direct laryngoscopy ✓ ✓
- Endotracheal tube insertion ✓ ✓
- Awake fiber optic examination ✓ ✓
- Combi tube insertion ✓ ✓
- Video laryngoscopy (incl. Sellick Maneuver) ✓ ✓
- Naso gastric tube insertion techniques × ✓
- Needle and surgical cricothyroidotomy × ✓
- Percutaneous tracheostomy × ✓

WHAT'S INCLUDED

AirSim Advance X model ✓ ×
AirSim Combo X model × ✓
Spare larynx inserts (x4) × ✓
Adult lung bag set ✓ ✓
Bottle of lubrication (100ml) ✓ ✓
USB user manual ✓ ✓
Carry case ✓ ✓

TruCric

The TruCric is ideal for practicing emergency needle and surgical cricothyroidotomy techniques. The model also facilitates percutaneous tracheostomy procedures.

Anatomically accurate features including: tracheal rings, simulated cricoid, cricothyroid membrane and laryngeal cartilages helps provide realistic training in front of neck access techniques.
Ultrasound Guided Pericardiocentesis Simulator

This simulator allows trainees to practice pericardiocentesis: inserting the needle under ultrasound guidance, piercing the pericardial sac and aspirating pericardial fluid.

SKILLS

- Ultrasound guided pericardiocentesis using subxiphoid or parasternal approach
- Patient positioning
- Visualization of pericardial fluid
- Palpation and identification of left xiphisternal junction (Larrey’s point) for needle insertion
- Insertion of needle in pericardial space
- Pericardial fluid suction
- Professional-to-patient training

QUALITIES

ANATOMY
- Adult upper torso
- Left xiphisternal junction (Larrey’s point)

REALISM
- Realistic needle tip feeling when the needle pierces the pericardial sac

KEY FEATURES
- Confirmation of ventricles, ribs, pericardium, liver and main artery under ultrasound scanning
- Durable and replaceable puncture pad

WHAT’S INCLUDED
- Adult chest model with spacer
- Puncture pad for pericardiocentesis
- Pillow for positioning
- Instruction manual

CONSUMABLES

KK11394-010 Puncture Pad for Guided Pericardiocentesis Simulator (x2)

Tube Feeding Simulator

An effective training for caregivers and medical professionals who work with patients receiving enteral tube nutrition. The manikin offers three routes for EN tubes and allows training with real liquid foods. The placement of the tubes can be confirmed by auscultation as well as direct observation. The model is supplied with a feeding routes panel and a chest anatomy overlay sheet to facilitate anatomical understanding.

SKILLS

- Nasogastric (NG) and Orogastric (OG) tube insertion
- Percutaneous Endoscopic Gastrostomy (PEG)
- Gastric lavage
- Administration of liquid food

QUALITIES

REALISM
- Transparent chest overlay enables direct observation of procedures
- Can be set at Fowler’s position
- Flexible neck allows for appropriate neck/head positioning

KEY FEATURES
- Tube placement can be confirmed by fluid aspiration
- Stomach accepts up to 300cc of liquid

VERSATILITY
- Compact and portable

WHAT’S INCLUDED
- Male torso & support base
- Drain tube
- Funnel
- Plastic cup
- Tube feeding routes panel
- Chest sheet
- Instruction manual
Yaye is an advanced, full body nursing manikin for hands-on training in a wide range of skills required for day-to-day patient care. Suitable for teaching fundamental nursing skills to registered nursing students.

**SKILLS**

- Body positioning/patient handling/passive exercise
- Bed bathing and change of clothes
- Airway management
- CPR
- Assessment of chest and abdomen
- Oral and denture care
- Nasogastric tube placement
- Oxygen/Nasal cannula placement
- Tracheotomy care and management
- Stomach pumping
- TPN care
- PEG care
- Stoma care
- Pressure ulcer care
- Subcutaneous injection
- Intramuscular injection
- IV insertion and care
- Male and female urinary catheterization
- Enema
- Suppository insertion
- Perineal care
- Wound dehiscence care
- Wrapping of dressings

**QUALITIES**

**ANATOMY**

- Interchangeable wigs, genitalia and masks to simulate a variety of patients

**REALISM**

- Simulating all the daily activities of patient care
- Enhanced Range of Motion (ROM) for better patient assessment and positioning

**KEY FEATURES**

- Soft and elastic abdomen allows for assessment of chest and abdomen
- Airway management and CPR

**VERSATILITY**

- Easily interchangeable male and female genitalia
- Suitable for postmortem care
- Provides training from trainee level up to experienced staff

**CLEANING & CARE**

- Skin surface is washable using soap and water

**WHAT’S INCLUDED**

Yaye Patient Care Manikin
Denture
Wig (black)
Face mask (young)
Injection pad (median vein)
Shoulder injection pads (x2)
Thigh injection pads (x2)
Hip IM pads (x2)
Female genitalia (catheterization)
Female genitalia (suppository insertion/digital disimpaction)

Set of simulated feces
Lubricant (for airway suction etc)
Lubricant (for catheterization etc)
Irrigation bag
Drainage pump (urinary bladder)
Drainage pump (rectum)
Drainage hose
Set of pajamas
Instruction manual

Visit [limbsandthings.com](http://limbsandthings.com) for more information about Optional Consumables
Cherry is a basic, full body nursing manikin for hands-on training in a wide range of skills for nursing assistants and vocational nurses.

**SKILLS**
- Oral and denture care
- Nasogastric tube placement
- Oxygen/Nasal cannula placement
- Tracheotomy care and management
- Stomach pumping
- TPN care
- PEG care
- Stoma care
- Pressure ulcer care
- Subcutaneous injection
- Intramuscular injection
- IV insertion and care
- Male and female urinary catheterization
- Enema
- Suppository insertion
- Perineal care
- Wound dehiscence care
- Wrapping of dressings
- Subcutaneous injection

**QUALITIES**

**ANATOMY**
- Male and female genitalia

**REALISM**
- Seamless arms and legs enable realistic bed and foot bathing
- Joint articulation for patient handling and passive exercise

**KEY FEATURES**
- TPN and IV routes to simulate patients with catheter lines
- Pressure sores of different depths located at the scapula, greater trochanter, sacral bone and heel
- Subcutaneous and intramuscular injection pads accept liquid and can be squeezed out after use

**VERSATILITY**
- Easily interchangeable male and female genitalia
- Suitable for wide range of basic care
- Removable dentures

**CLEANING & CARE**
- Skin surface is washable using soap and water

**WHAT’S INCLUDED**

- Female Genitalia
- Male Genitalia
- Wound Care Pad
- Cherry Patient Care Manikin
- Femoral IM injection pad
- Upper arm IM injection pad
- Bottle
- Syringe

Visit [limbsandthings.com](http://limbsandthings.com) for more information about Optional Consumables.
LUMBAR PUNCTURE & EPIDURAL RANGE

This range offers realistic, repeatable and cost effective training in the core skills of lumbar puncture and epidural anesthesia for both palpation and ultrasound guided techniques.

All three models share a common base but offer different levels of complexity to support trainees from early through to advance learning.

Designed in conjunction with clinicians, the models feature realistic feel and response while offering a safe environment for learning and skill maintenance.

Lumbar Puncture Model

This model is designed for early years training. It features replaceable tissue inserts, durable spine and dura that accurately recreate the feel of puncturing the dura and the collection and measurement of CSF.

Its separate spine and replaceable tissue means the model is a cost effective way to train large numbers of students.

Advanced Epidural & Lumbar Puncture Model

The Advanced model allows training in both lumbar puncture and epidural administration. Featuring two epidural inserts: standard and an advanced version with steeper spine, the model is ideal for both early and advanced training for more complex procedures.

This model also features optional fat pads to fit below the skin to increase realism and difficulty for trainees.

Ultrasound Epidural & Lumbar Puncture Model

Ideal for those wishing to teach lumbar puncture or epidurals using the ultrasound guided technique.

Tested to work on all major ultrasound brands, this model includes visible facet joints.
QUALITIES

ANATOMY
• Palpable sacrum, iliac crests and vertebrae L2-5

REALISM
• Can feel when the dura has been punctured
• Able to practice loss of resistance technique*
• Obese skin options*
• Optional steeper spine and smaller vertebral spaces*

KEY FEATURES
• Position in left lateral and sitting

VERSATILITY
• All inserts compatible with common base
• Rotatable skin to ensure cost effective training

* 61001 | 61024 Only

SKILLS

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<td>61025</td>
</tr>
</tbody>
</table>

• Injection of local anesthetics ✓ ✓ ✓
• Lumbar puncture ✓ ✓ ✓
• Collect and measure CSF ✓ ✓ ✓
• Epidural administration × ✓ ✓
• Ultrasound-guided technique × × ✓
• Obese option × ✓ ×

WHAT’S INCLUDED

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<tbody>
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</table>

Epidural & Lumbar Puncture Torso with Torso Skin ✓ ✓ ✓
Epidural & Lumbar Puncture Stand ✓ ✓ ✓
Lumbar Puncture Insert - Bone ✓ ✓ x
Lumbar Puncture Insert - Tissue (x2) ✓ ✓ x
Epidural Insert (x2) ✓ ✓ x
Advanced Epidural Insert (x2) ✓ ✓ x
Epidural & Lumbar Puncture Ultrasound Insert (x2) x x x
Epidural & Lumbar Puncture Skin Pad ✓ ✓ x
Epidural & Lumbar Puncture Fat Pad (x3) x x x
Epidural & Lumbar Puncture Standard Dura (x2) ✓ ✓ x
Epidural & Lumbar Puncture Advanced Dura (x4) x x x
Epidural & Lumbar Puncture Iliac Crest Insert ✓ ✓ x
Epidural & Lumbar Puncture Insert Cartridge ✓ ✓ x
Epidural & Lumbar Puncture Sacral Insert ✓ ✓ x
Water Reservoir ✓ ✓ x
Marker Pen x x x
Paracentesis Trainer

This trainer fulfills the fundamental component of Internal Medicine Training in diagnostic and therapeutic techniques of Paracentesis. Both landmark and ultrasound guided techniques can be practiced.

Trainees are able to identify the echogenic anatomy enabling them to learn how to safely insert a needle or catheter into the peritoneal cavity.

QUALITIES

ANATOMY
- Torso featuring bony landmarks (pubis symphysis, iliac crest) and umbilicus
- Internal anatomy includes:
  - Liver
  - Spleen
  - Bowel
  - Floating Bowel

REALISM
- Realistic tissue and needle response

KEY FEATURES
- Palpation or ultrasound techniques can be practiced (side by side)
- Internal echogenic anatomy to allow recognition of landmarks under ultrasound
- Two 3.5 liter chambers can be filled with water for practicing drainage
- Cost effective consumable pads

VERSATILITY
- Self-sealing pads, withstanding up to 200 needle or up to 100 rocket catheter insertions
- Ability to insert and remove a drain
- Positions both supine and lying on side

SAFETY
- Latex free

CLEANING & CARE
- Skin surface is washable using soap and water

SKILLS

- Familiarity with the abdominal regions and underlying anatomy
- Palpation of anatomical landmarks
- Identification of excess fluid
- Through ultrasound, identification of safe needle/catheter insertion sites
- Insertion of needle into peritoneal cavity for therapeutic or diagnostic purposes
- Professional-to-patient communication

WHAT’S INCLUDED

Paracentesis Skin
Paracentesis Pads (x2)
Paracentesis Liver
Paracentesis Spleen
Paracentesis Bowel Insert
Paracentesis Floating Bowel
Paracentesis Clamping Frame
Paracentesis Large Volume Refill System
Base Unit
Carry Case
Basic Intraosseous Trainer

The Basic Intraosseous (IO) Trainer is a simple training solution for trainees learning and practicing IO insertion. Perfect for a classroom setting, the trainer’s realistic skin and bone materials allow for unmatched realism.

SKILLS
- Allows trainees to simulate intraosseous insertion

QUALITIES

ANATOMY
- Soft skin has a thickness of 7mm
- Cortical bone thickness of 2.5mm
- Marrow with thickness of 23mm

REALISM
- Trainees can experience the “drop” in resistance when advancing past the cortical bone
- Realistic look and feel of skin and bone material
- Available in both light and dark skin-tones

KEY FEATURES
- Allows for 100+ accesses per trainer, with replaceable insert

WHAT’S INCLUDED
Bone/Skin for IO Trainer
Base

TruIV Block

The TruIV Block allows learners to gain proficiency in the skills associated with IV cannulation. Featuring 8 veins (superficial and deep) ranging from 4-8mm in diameter, users can practice the use of ultrasound during IV procedures. This easy to set up model is realistic and durable allowing for approximately 4000 needles before needing to be replaced.

SKILLS
- The use of ultrasound when performing IV procedures
- Probe positioning and movement within soft responsive tissue

QUALITIES

ANATOMY
- Features 8 veins; 4 superficial and 4 deep, ranging from 4-8mm

REALISM
- Lifelike vascular ‘tenting’ upon successful entry into the vessel

KEY FEATURES
- Ability to withdraw blood provides trainees with positive feedback
- Longitudinal and transverse anatomical viewing options
- Self-regenerating TruUltra materials reduce the appearance of needle tracks to facilitate repeated practice
- Can be set up in less than five minutes
- Easily transportable

WHAT’S INCLUDED
- TruIV Block unit (TIV100)
- TruIV Block carrier case
- USB pen drive user manual
- Tubes with luerlock connectors for fluid insertion/removal (x2)
- 60ml syringe
**SUTURE TUTOR PLUS™**

All you need to learn basic instrument handling, knot tying, suturing and more.

---

**SUTURE TUTOR PLUS™** is a complete training package to help medical students and healthcare professionals master fundamental hands-on skills relating to instrument handling, knot tying and suturing. The product consists of two parts which can be purchased individually, or together as a complete package.

---

### Online, Video-based Course

**STP-PRO-SUB**

An online, video-based course that can be accessed anytime, anywhere. Developed in collaboration with Professors of Surgical Education Jonathan Beard and Roger Kneebone, the 11 module course closely follows the Intercollegiate Surgical Curriculum Programme.

- Unlimited access
- Explanatory videos use computer graphics for clarity
- Demonstration videos use clinical footage
- Practical videos use Limbs & Things products from the Hands-on Kit
- Purchase subscription with or without kit

### Hands-on Kit

**STP-KIT**

A Hands-on Kit including a professional skin pad, 10 sutures, basic knot tying kit and all necessary instruments to allow repeated practice of suturing techniques. Can be purchased on its own or with the online course.

---

### SKILLS

- Handling of instruments
- Needles and sutures
- Knot tying
- Incision of skin and subcutaneous tissue
- Suturing techniques
- Suture aftercare
- Patient management and consent
- Scrubbing, gowned and gloving
- Cleaning a wound
- Local anesthesia
- Other methods of wound closure

---

### WHAT'S INCLUDED

- Single Professional Skin Pad Mk 3 - Large
- Skin Pad Jig Mk 3
- Basic Knot-tying Kit
- Pack of 10 Sutures (non-sterile)
- Scalpel
- Dissecting Forceps
- Scissors
- Needle Holder

---

### CHOOSE YOUR PRODUCT

<table>
<thead>
<tr>
<th>STP-PRO-COM</th>
<th>STP-PRO-SUB</th>
<th>STP-KIT</th>
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</tbody>
</table>

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One year Institutional Multi-User and Trainer Licences are also available - please contact Customer Service for details.
BSS Day 1 Kit

50070

Basic surgical skills kit facilitating the practice of a range of knot-tying, suturing and tissue handling techniques.

SKILLS

• Knot-tying: one-handed reef knot, instrument tie, surgeon’s knot, tying at depth
• Suturing techniques: holding/manipulation of needles, interrupted, simple and mattress, continuous, subcuticular
• Skin lesions and LA techniques: excising a skin lesion, excising a sebaceous cyst
• Hemostasis: clip tie, continuity tie, pedicle transfixon
• Tissue handling - bowel: end-to-end interrupted sutures
• Fine tissue handling: tendon repair

WHAT’S INCLUDED

- Double Layer Bowel 30mm
- BSS Lesion & Cyst
- BSS Surgical Skills Board
- BSS Tendon Repair Trainer
- BSS Knot Tyng Trainer
- Skin Pad Jig with Skin Pad
- BSS Soft Tissue Retaining Set
- Hemostasis Pad

BSS Day 2 Kit

50071

Basic surgical skills kit facilitating hands-on practice of abdominal closure and drain insertion, fine tissue handling and wound management. Contains latex.

SKILLS

• Abdominal closure and drain insertion: open abdominal wall, insert drain and secure, close abdominal wall with Aberdeen knot
• Fine tissue handling: vein patch exercise
• Wound management: abscess drainage, traumatic wound debridement

WHAT’S INCLUDED

- BSS Abscess
- BSS Traumatic Wound with Simulated Foreign Bodies
- BSS AOCT Pad
- BSS AOCT Frame
- Drain
  - 8mm x 140mm Artery
  - 8mm x 76mm Graft Patch

BSS Day 1 Refill Pack

50072

WHAT’S INCLUDED

- Skin pad
- Bowel
- Hemostasis pad
- BSS lesion & cyst
- Tendon

BSS Day 2 Refill Pack

50073

WHAT’S INCLUDED

- AOCT pad with drain
- BSS abscess
- BSS traumatic wound
- Artery with graft patch
Knot Tying Trainer

A comprehensive trainer for teaching all surgical knot tying techniques, including those specified in the GB and Ireland Intercollegiate Basic Surgical Skills Course.

Developed in collaboration with Professor Jonathan Beard, Northern General Hospital, Sheffield (UK) and Mr. John Rochester, Rotherham General Hospital (UK).

SKILLS
- One-handed reef knot technique
- Instrument tie
- Surgeon’s knot
- Slip knot
- Tying in a small opening
- Tying at depth vertically in a large opening
- Tying at depth, at an angle, in a large opening

Double Layer Bowel

Realistic 2 layer bowel simulation for training in anastomosis techniques. Both models are approximately 200mm in length.

SKILLS
- Tissue handling
- Single layer extra mucosal suturing
- Continuous suturing technique
- Stapling
- End-to-end extra mucosal anastomosis
- End-to-side anastomosis

Professional Abdominal Opening & Closure Trainer (AOCT)

An advanced abdominal wall pad consisting of epidermis, dermis, fat and linea alba. This pad has a separate peritoneal layer and is mounted on a base for teaching abdominal surgical access and closure techniques.

SKILLS
- Insertion of a veress needle
- Insertion of a trocar
- Hassen technique
- DPL techniques
- Incisions: linear, ellipse, flaps, shaped
- Subcuticular undermining
- Simple and advanced interrupted suturing techniques
- Subcuticular suturing
- Continuous suturing
- Stapling
- Use of adhesive strips
For the practice of skin lesion removal, local anesthesia and biopsy techniques. Cyst has a fragile epidermoid wall filled with simulated pus. This product is also available as part of the BSS Day 1 Kit (50070).

**SKILLS**
- Excising a skin lesion
- Excising a sebaceous cyst

**ANATOMY**
- Wound contains:
  - Broken bone with splinters, tendon and fluid filled vein
  - Necrotic tissue and simulated foreign bodies (glass & dirt)

**REALISM**
- Realistic soft tissue with skin, fat and muscle layers

**QUALITIES**

**SAFETY**
- Veins contain latex

For use with all Limbs & Things skin pads and the BSS bowel, hemostasis pad, lesion & cyst and tendon.

**QUALITIES**

**KEY FEATURES**
- Non-slip heavyweight base
- Smooth top surface allows for secure fixing of soft tissue products using supplied Soft Tissue Retaining Set

**SAFETY**
- Latex free

**CLEANING & CARE**
- Wipe-clean surface

**WHAT'S INCLUDED**
- BSS Soft Tissue Retaining Set
  - Retaining clips with sucker feet (x2)
  - Retaining clips with attachment loops (x4)
- Skin Pad Jig
- Base
**Wound Closure Pad**

A low cost, 1 layer pad, ideal for demonstrating, training and practicing core skills associated with wound closure.

**SKILLS**

- Making an incision
- Application of skin adhesives
- Interrupted suturing and knotting
- Stapling

**QUALITIES**

**REALISM**

- Works with all major topical skin adhesives

**KEY FEATURES**

- An excellent starter pad for wound closure training
- Pad dimensions: large 145mm x 125mm, small 125mm x 72mm

**VERSATILITY**

- Use with the Skin Pad Jig Mk 3 (00550)

**SAFETY**

- Latex free

---

**Professional Skin Pad Mk 2**

An advanced 3 layer skin pad for demonstrating and practicing a variety of incisions and a wide range of suturing techniques.

**SKILLS**

- Incisions: linear, ellipse, flaps, shaped
- Subcuticular undermining
- Simple and advanced interrupted suturing techniques
- Subcuticular suturing
- Continuous suturing
- Stapling
- Use of adhesive strips

**QUALITIES**

**REALISM**

- Improved, unidirectional skin texture
- Realistic tissue response with a similar drag and strength to human skin
- All layers have realistic retention of sutures

**KEY FEATURES**

- Pad dimensions: large 145mm x 125mm, small 125mm x 72mm

**VERSATILITY**

- Serves the needs of both specialist and beginner
- Use with the Skin Pad Jig Mk 3 (00550)

**SAFETY**

- Latex free
Lipoma Pad

For practicing the full lipoma removal procedure. 3 layer skin: epidermis, dermis and subdermal layer. Pad contains 2 lipomas.

**SKILLS**
- Designing the incision
- Marking out the lipoma
- Incising the skin
- Blunt dissection
- Removal
- Closure

**QUALITIES**

**REALISM**
- Improved, unidirectional skin texture
- Lipoma is consistent with that found in a patient
- Lipoma sited within the fat layer
- Precise replication of in-vivo adhesion
- All layers of tissue can be identified

**KEY FEATURES**
- Pad dimensions: 125mm x 72mm

**VERSATILITY**
- Use with the Skin Pad Jig Mk 3 (00550)

**SAFETY**
- Latex free

Sebaceous Cyst Pad

For practicing the full sebaceous cyst removal procedure. A 3 layer skin pad with epidermis, dermis and subdermal layer. Contains 2 cysts.

**SKILLS**
- Marking out the cyst
- Planning and marking the ellipse
- Incising the skin
- Sharp dissection
- Blunt dissection
- Management of a burst cyst
- Removal
- Closure

**QUALITIES**

**ANATOMY**
- Improved, unidirectional skin texture
- 3 layer skin: epidermis, dermis and subdermal layer
- Contains 2 Cysts

**REALISM**
- Cyst is consistent with that found in a patient
- Cyst exhibits appropriate adhesion to other surrounding tissue
- Cyst sited immediately below skin layer and is attached firmly to its underside
- Fragile epidermoid wall filled with simulated pus

**KEY FEATURES**
- Pad dimensions: 125mm x 72mm

**VERSATILITY**
- Use with the Skin Pad Jig Mk 3 (00550)

**SAFETY**
- Latex free
Lesions Pad

Developed in conjunction with a leading US dentistry school.

The Lesions Pad features 3 common morphologies that promote the recognition of identifiable landmarks and the practice of various biopsy procedures and suturing techniques.

**SKILLS**
- Designed to promote the recognition of common oral pathologies: papule, macule and ulcer
- Also suitable to promote the recognition of simple dermal pathologies
- Incision biopsy
- Excision biopsy
- Punch biopsy
- Planning of oral and minor surgical and suturing techniques

Curettage, Snip & Shave Excision Pad

Combines a number of skin lesions (tags, naevi, seborrheic keratose) for teaching superficial dermatological lesion removal techniques.

**SKILLS**
- Snip excision
- Shave excision
- Curettage

Ingrowing Toenail Trainer

This unique product closely mimics an inflamed toe end with an ingrowing toenail.

Improved realism. Now latex Free.

**SKILLS**
- Ring block techniques
- Total nail avulsion
- Ablation of the nail bed
- Application of a tourniquet
- Phenolisation techniques
- Wedge excision - partial nail avulsion

**WHAT’S INCLUDED**
- Toe Jig
- Toe Ends (x3)
The Colles’ Fracture Trainer is an ideal training tool for learners looking to gain confidence in the reduction of Colles’ fractures occurring at the distal end of the radius. The portrayal of an elderly female arm coupled with a fractured distal fragment of the radius provides trainees with a platform for repeatable and consistent practice of manual Colles’ reduction (closed) and plastering techniques. As is typical in a real-life emergency setting, the model allows trainees to perform visual inspections and identification before facilitating a team focussed Colles’ fracture reduction.

An adjustable tension mechanism allows trainers to alter the difficulty of the procedure for advanced learning.

**SKILLS**
- Visual inspection and identification
- Reduction of the fracture (closed reduction)
- Plastering techniques
- Adjustable tension for different difficulties to be simulated
- Teamwork and communication when reducing the fracture

**QUALITIES**

**ANATOMY**
- Fractured distal fragment of radius
- Head and body of the ulna

**REALISM**
- Realistic representation of a ‘dinner-fork’ deformity
- Lifelike haptic feedback when carrying out the procedure

**KEY FEATURES**
- Adjustable tension allows for progressive levels of difficulty
- Trainees can perform all three stages of reduction: exaggeration (to disimpact the fracture), traction and flexion
- Accommodates a number of plastering techniques, including: back slab, circular cast, sugar-tong splint and 3-point molds
- Variable height stand allows users to adjust the height of the model for training ease
- Replaceable hand and skin

**SAFETY**
- Latex free

**WHAT’S INCLUDED**
- Colles’ Fracture Arm (with skin included)
- Adjustable Height Stand
- Hex Keys (x2) - Large and Small
SHOULDER INJECTION TRAINER RANGE

This range combines physical practice with the guidance of technology. It provides a repeatable teaching and training platform for shoulder injections in the 4 most common sites.

Shoulder Injection Trainer - Palpation Guided

With tablet included, the accompanying Android app allows learners and teachers to visualize the underlying anatomy, as well as clearly signalling success.

SKILLS

- Practice multiple approaches to specific sites
- Identification of anatomical landmarks using palpation guidance
- 4 common injection sites:
  - Acromioclavicular Joint
  - Glenohumeral Joint
  - Bicipital Groove
  - Subacromial Space
- Rotation of the shoulder to locate head of the humerus

QUALITIES

REALISM
- Discrete muscle and skin layers for realistic needle feel

KEY FEATURES
- Palpation to find the four most common injection sites
- Instant feedback for the trainee when a site is correctly located
- Injections from multiple approaches to allow for different preferences
- Suitable for postgraduate learning
- App features full 360-degree view of underlying anatomy and injection site to aid learning
- Cost effective replacement skins

VERSATILITY
- Each skin can withstand up to 500 injections per site
- Simple Bluetooth connection between app and trainer
- Requires only a standard needle (supplied)
- Batteries (2 x AA supplied) last for up to 500 hours

SAFETY
- Latex free

WHAT’S INCLUDED

Shoulder Module - Palpation Guided
Shoulder Skin (x1 spare)
Shoulder Torso
Needle Set
Android Tablet
Elbow
AA Batteries (x2)
Carry Case

The application includes interactive shoulder anatomy and links to injection technique guides.
Shoulder Injection Trainer - Ultrasound Guided

Caters for ultrasound guided techniques, as well as allowing injection and aspiration of fluids under ultrasound.

SKILLS

• Patient positioning and management
• Identification of anatomical landmarks using ultrasound guidance
• 4 common injection sites:
  - Acromioclavicular Joint
  - Glenohumeral Joint
  - Biceps Tendon Sheath (which lies in the Bicipital Groove and surrounds the tendon)
  - Subdeltoid Bursa (in the Subacromial Space)
• Competence using ultrasound technology to perform injections in different planes using different approaches
• View the suprascapular nerve under ultrasound

QUALITIES

REALISM

• Innovative materials within the shoulder create close to life ultrasound images

KEY FEATURES

• Echolucent materials visible under ultrasound represent the key internal landmarks
• Successful injection can be confirmed by visualizing fluid entering the site, or by aspirating fluid
• The quantity of fluid in the Subdeltoid Bursa can be adjusted, from no fluid present to a fluid-filled distension for differing skill levels
• Nerve block functionality - allows trainees to view and inject around the suprascapular nerve

VERSATILITY

• Watertight and durable for up to 400 injections per site
• Altering the size of the bursa allows trainers to change the level of difficulty of training (less fluid is more challenging to inject)
• Synovial fluid has a realistic color

SAFETY

• Latex free

WHAT'S INCLUDED

| Shoulder Module - Ultrasound Guided |
| Shoulder Torso                     |
| Ultrasound Shoulder Filling Kit    |
| Needle Set                        |
| Synovial Fluid (250ml)             |
| Elbow                              |
| Carry Case                         |
Suitable for all levels of training, the Hand & Wrist Injection Trainer allows trainees and clinicians to practice and teach injections in five different locations (Carpal Tunnel, De Quervain’s Sheath, Trigger Finger, First Carpometacarpal Joint, and the Distal Radioulnar Joint). The model also highlights when incorrectly injected, ensuring trainees learn to avoid the median nerve.

The trainer comes equipped with an Android tablet, which works in unison with our newly developed app. The app, coupled with innovative sensory technology, provides learners with wireless, real-time feedback from the procedure.

**SKILLS**

- Model allows for injection into:
  - The Carpal Tunnel
  - De Quervain’s Sheath
  - Trigger Finger
  - First Carpometacarpal Joint
  - Distal Radioulnar Joint
- Patient positioning and management
- Identification of anatomical landmarks

**ANATOMY**

- Injection Sites:
  - Carpal Tunnel
  - De Quervain’s Sheath
  - Trigger finger
  - First Carpometacarpal Joint
  - Distal Radioulnar Joint
  - Trigger finger nodule
  - Median Nerve
- Bone structures:
  - Radial Styloid
  - Ulnar Styloid
  - Trapezius and Scaphoid
  - First Carpometacarpal Joint space
  - Distal Radioulnar Joint space
  - Lister’s tubercle
- Internal Product Anatomy:
  - Palmaris Longus
  - Flexor Carpi Radialis
  - Extensor Digitorum Group
  - Extensor Digitii Minimi
  - Abductor Pollicus Longus
  - Extensor Pollicis Brevis
  - Extensor Pollicus Longus

**QUALITIES**

**REALISM**

- Interactive model anatomy
- Anatomically correct
- Includes important ligament and skeletal structures

**KEY FEATURES**

- Facilitates injection in 5 key sites
- Presence of Median Nerve allows for negative feedback
- New app provides interactive real-time feedback
- Each site can withstand over 200 injections
- Skin can be easily removed and changed

**VERSATILITY**

- Lightweight and easily portable
- App can be set to English UK, English USA, French, Mandarin, Spanish and German

**CLEANING & CARE**

- Skin surface is washable using soap and water

**SAFETY**

- Fluid should not be injected into any of the sites, due to the electronics contained
- Latex free

**WHAT’S INCLUDED**

- Hand & Wrist Model
- Hand & Wrist Skin (x2)
- Android Tablet
- Needle Set – 3 Green Needles, 1 Syringe, 1 Sharps Bin
- AA Batteries (x2)
Knee Aspiration & Injection Trainer with Ultrasound Capability

An anatomically accurate adult knee model for aspiration of synovial fluid and joint injection from both the lateral and medial aspects, using ultrasound-guidance or palpation.

The robust sealed knee includes knee joint, patella, patellar tendon and the suprapatellar space.

SKILLS

- Injection into joint cavity
- Aspiration of synovial fluid from both the lateral and medial aspects
- Competence using ultrasound technology to perform systematic scanning techniques and examination of the knee joint
- Identification of anatomical landmarks using ultrasound guidance or the palpation method
- Patient positioning and management
- Recognition of joint effusion
- Ballottement

ANATOMY

- Key anatomical landmarks are realistic to palpate:
  - Skin
  - Subcutaneous fat, quadriceps tendon & patellar ligament
  - Prefemoral, suprapatellar & Hoffa (infrapatellar) fat pad
  - Femur
  - Medial & lateral collateral ligament
  - Tibia
  - Patella
  - Joint space & synovial recess
  - Meniscus
  - Muscle mass of quadriceps

QUALITIES

REALISM
- Discrete muscle and skin layers provide realistic tissue and needle response
- Anatomically accurate synovial sac and palpable patella
- Realistic color and consistency of synovial fluid

KEY FEATURES

- 1000+ stabs per module with 21 gauge needle
- Precise, palpable anatomy with bony landmarks
- Robust, sealed knee unit that holds all anatomy
- Key internal landmarks visible under ultrasound
- Compatible with all standard ultrasound machines
- Echolucent material allows aspiration and injection under ultrasound-guidance
- Suitable for undergraduate and postgraduate medical study
- Knee skin is watertight

VERSATILITY

- Caters for ultrasound-guided technique as well as palpation
- Can be used with leg supports for supine position, or without leg supports for side of bed position
- Separate Fluid Bag & Stand ensure the model is easy to use and mobile
- Clear indicator on fluid bag to prevent overfilling

SAFETY
- Latex free

WHAT’S INCLUDED

- Ultrasound Knee Module for Aspiration & Injection
- Fluid Bag and Stand
- Synovial Fluid (including Syringe)
- Needle Set – 3 Green Needles, 1 Syringe, 1 Sharps Bin
- Leg Unit, including removable supports
- Carry Case
Elbow for Joint Injection

For practicing soft tissue joint injection used for the treatment of injuries and arthritis. The arm is presented for the treatment of both Golfer’s and Tennis elbow.

SKILLS

• Patient posture and management
• Palpation techniques
• Identifying anatomical landmarks and painful areas
• Injections for:
  - Tennis Elbow (lateral epicondyliitis)
  - Golfer’s Elbow (medial epicondyliitis)
• Training in fan or cone infiltration techniques

QUALITIES

REALISM
• Flexed right elbow, which rotates on the stand

KEY FEATURES

• Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired, point of maximal tenderness has been palpated, and when the ulnar nerve has been hit

VERSATILITY
• Supplied with ‘No Trace’ marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks

SAFETY
• Latex free

WHAT’S INCLUDED

‘No-Trace’ Marker
Elbow Needle Set
Elbow Skin
Elbow Base Unit
Feedback Console with Batteries

Foot & Ankle for Joint Injection

A foot and ankle for practicing soft tissue injection for the treatment of injuries and arthritis. Designed in collaboration with Mr Jim Pickard and Dr Chris Davies from the University of Huddersfield, UK.

SKILLS

• Patient posture and management
• Palpation techniques
• Identifying anatomical landmarks
• Injection sites for:
  - Metatarsophalangeal (MTP) Joint
  - Morton’s Neuroma
  - Tarsal Tunnel
  - Sinus Tarsi
  - Plantar Fascia
  - Retrocalcaneal Bursa
  - Tibiotalar Joint
  - Subtalar Joint

QUALITIES

ANATOMY
• Represents normal anatomy as required for palpation purposes

KEY FEATURES

• Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired

SAFETY
• Latex free

WHAT’S INCLUDED

Foot & Ankle Needle Set
Foot & Ankle Skin
Foot & Ankle Musculature
Foot & Ankle Base Unit
Feedback Console with Batteries
Surgical Female Pelvic Trainer (SFPT) Mk 2

60251

A simulator for training in a wide range of laparoscopic gynecological surgical techniques and procedures. The uterus component can be easily removed and replaced after use.

**Qualities**

**Anatomy**
- Includes:
  - Uterus
  - Cervix
  - Bladder
  - Ovaries
  - Ureters
  - Ovarian artery
  - Dunn’s pouch
  - Ovarian cyst
  - Fibroid
  - Cardinal ligament
  - Abdominal skin with realistic tissue properties for trocar insertion
  - Pelvic floor with sympathetic features

**Realism**
- Insufflation of abdomen is represented

**Key Features**
- Provides practice and role playing for gynecological perioperative teams
- Includes a realistic vaginal canal and cervix for inspection, in which a uterine manipulator can be used
- Realistic bleeding when arteries are cut

**Versatility**
- Compatible for use with harmonic scalpels

**Safety**
- Capsule in uterus contains latex

**Skills**
- All skills relevant to performing the following procedures:
  - Salpingectomy
  - Salpingostomy
  - Myomectomy
  - Cystectomy
  - Hysterectomy
  - Oophorectomy
- Dissection down to and location of ureters
- Insertion and use of uterine manipulator
- Working with various gynecology instruments
- Identification of anatomical landmarks

**What’s Included**
- SFPT Mk 2 Abdomen
- SFPT Mk 2 Surgical Uterus
- SFPT Mk 2 Abdominal Skin Pad
- SFPT Mk 2 Perineum
- SFPT Mk 2 Bowel
- Venous Blood Starter Kit
- SFPT Mock Blood Kit (includes reservoir and pump)
- Blunt Dispensing Needle and Syringe

**Consumables**
- 60256 SFPT Uterus (x5)
- 60257 SFPT Uterus (x10)
- 00021 Concentrated Venous Blood

**Patents granted**
- US6336812 • EP099027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
The **Birthing Simulator - PROMPT Flex Range** and its modules are anatomically correct and have been designed in collaboration with clinicians to aid the training and practice of normal and difficult births (including shoulder dystocia), to improve outcomes for mothers and babies during childbirth.
Additional modules

Fit either the Standard or the Advanced units allowing you to tailor your training needs.

Clean Bleed™ Mat

This easy to setup and mess free product has the ability to create the impression of hemorrhages such as postpartum through a controlled flow into a sealed mat.

*See page 4 for more details.*
A modular design birthing simulator allowing for numerous training scenarios. Used either for stand-alone training or integrated into hybrid simulation, it is an ideal training solution for all skills relating to routine and difficult deliveries.

Incorporates wireless force monitoring where force applied to the baby’s head is measured during a shoulder dystocia drill. Includes an app with inbuilt scenarios allowing monitoring and recording of force, interventions made and time taken to deliver the baby.

 QUALITIES

ANATOMY
• Birth canal and cervix
• Ischial spines and pubic bone
• Gynecoid pelvis
• Articulating thighs
• IM injecting
• Fully articulated baby with detachable umbilical cord and placenta
• Baby includes clavicles, fontanelles and flexible head

KEY FEATURES
• Improved and more realistic pelvic floor
• Articulating thighs for McRoberts procedure
• Stretchable perineum
• Soft flexible birthing canal
• Additional modules to extend learning
• Optional lower legs for extended realism
• Optional wireless force monitoring for training in shoulder dystocia management

SAFETY
• Latex free

CLEANING & CARE
• Skin is washable using soap and water

Tablet not included
Download app at limbsandthings.com

 SKILLS

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Cervical Dilatation & Effacement Module (CD&E) - PROMPT Flex

80102 80202

Allows for training in assessment of both the latent and active first stages of labor.
This versatile module is an optional add-on to the Birthing Simulator - PROMPT Flex - Standard/Advanced.

QUALITIES

REALISM
- Realistic representation of cervixes, including anterior lip, and presenting parts in soft birth canal, with palpable ischial spines

KEY FEATURES
- Inserts to represent early labor cervixes - effacement, dilation and ripeness in line with Bishop’s scoring
- Positioning mechanism allows adjustment of station, dilation and tilt without removal from the simulator
- Dynamic positioning mechanism allows adjustment of dilation in active labor
- Markers allow tutor to read positioning in situ
- Numerous presenting part inserts including
  - flexed
  - deflexed
  - brow
  - face
  - breech
  - caput and moulding

VERSATILITY
- Presenting parts and cervix can be set up outside the model for demonstration, then placed inside for examination

SAFETY
- Latex free

SKILLS

- Assessment and Bishop’s scoring of:
  - Cervical dilation (1-10cm)
  - Cervical effacement (0-100%)
  - Cervical ripeness/consistency (soft, medium, hard)
  - Cervical position (anterior, mid, posterior)
  - Fetal station (-3 to +3)
- Assessment of and artificial rupture of membranes
- Assessment of presenting part - flexed, deflexed, brow, face, breech, caput and moulding and caput formation

WHAT’S INCLUDED

Perineum
Pelvic Ring
Static Rig
Dynamic Rig
Set of 7 Latent Labor Cervixes
Dynamic Cervix
Set of 5 Presenting Parts
Set of 2 Difficult Labor Heads
Amniotic Membrane Set
Set of 3 Caputs (x2)
Ideal for practicing the necessary skills required when performing both routine and complex cesarean section. Trainees can have exposure to delivering a difficult baby such as an impacted fetal head (IFH), or a transverse lie.

A pre-incised abdomen allows for repeated delivery practice to help improve confidence and familiarity of maneuvers.

**QUALITIES**

**REALISM**
- Abdominal skin has realistic appearance, fat layer and feel of at-term abdomen
- Realistic feel of uterus interior during delivery
- Head and shoulders present at realistic level in relation to the uterine incision

**KEY FEATURES**
- Uterus holds baby firmly in position for cephalic, breech and transverse presentations
- Fundal pressure can be applied to aid delivery of the baby for IFH maneuvers
- Pre-incised skin allows easy repeat delivery practice
- Realistically mimics the restrictive space of the pelvic inlet for IFH maneuvers
- Accommodates retraction using metal, plastic or rubber retractors

**VERSATILITY**
- Allows for training in routine and complex caesarean section at full dilation

**SAFETY**
- Latex free

**SKILLS**

- Cephalic and breech delivery
- C-section at full dilation:
  - Head disimpaction using vaginal push methods
  - Use of balloon disimpacting device
  - Reverse breech extraction
  - Patwardhan’s technique
- Transverse lie
- Instrument assisted C-section delivery
- Delivery of the placenta for routine c-sections
- Teamwork and human factors training in emergency C-section

**WHAT’S INCLUDED**

- Perineum
- Uterus for Cesarean Section Module
- Impacted Fetal Head Uterus
- Pre-incised Delivery Skin
- Cervix for Cesarean Section Module
- Foam Uterus Support
- Pelvic Floor
Cervical Cerclage Module - PROMPT Flex

This module is the ideal tool for trainees looking to develop the skills of elective and emergency cervical cerclage.

The easy to use design offers realistic movement of the cervix down the vaginal vault, enabling trainees to place the cerclage as high up the cervix as possible, which supports the learning of the McDonald technique.

SKILLS

- Management of cervical incompetence
- Elective cerclage
- Emergency (or rescue) cerclage
- McDonald cerclage technique

QUALITIES

REALISM

- Realistic representation of a dilating cervix with presenting amniotic sac for emergency procedures
- Restrictive space within the vagina to perform the procedure as in life

KEY FEATURES

- Detachable cervix to allow for repeated training in both elective and emergency cerclage procedures
- The detachable OS provides instant feedback to the trainee
- Fluid filled amniotic sac replicates bulging membranes for emergency procedures

VERSATILITY

- Allows for the practice of both elective and emergency cervical cerclage
- Can be quickly and easily fitted into PROMPT Flex

SAFETY

- Main product is latex free however Amniotic Sacs provided contain latex

Developed in collaboration with:

- Dr. Graham Tydeman, Consultant Obstetrician and Inventor, NHS Fife
- Professor Andrew Shennan OBE and Professor Annette Briley, Guy’s and St. Thomas’ NHS Foundation Trust

WHAT’S INCLUDED

- Cervical Cerclage Frame
- Cervical Cerclage Vagina
- Cervical Cerclage Elective OS (x5)
- Cervical Cerclage Emergency OS (x5)
- Cervical Cerclage Amniotic Sacs (x5)
- Cervical Cerclage Fluid System
- Cervical Cerclage Perineum
In line with the Joint Commission requirement that all JCAHO accredited facilities will conduct maternal safety in situ training, including that of Postpartum Hemorrhage, the Maternal Hemorrhage kit has been created for effective identification and management of PPH with an atonic and contracting uterus. The new standards released by the Joint Commission address the most common findings that lead to poor outcomes for women.

This kit includes a PROMPT Flex birthing mother, an abdomen and Concentrated Venous blood, as well as a container. This allows for the creation of multiple simulated post-partum training scenarios, and is an ideal training solution for the skills related to effectively managing a post-partum hemorrhage. The maternal hemorrhage simulator may be used for hybrid simulation as well as stand-alone bench top training.

SKILLS
- Management of postpartum bleeding:
  - Fundal massage
  - Bi-manual compression
  - Hemostatic balloon insertion and management
- Communication skills with the mother when used with a standardized patient
- Intramuscular injection
- Estimation of blood loss

QUALITIES

ANATOMY
- Anatomically accurate representation of mother with postpartum bleeding
- Realistic feel of fundal massage and bi-manual compression

REALISM
- Realistic simulation of atonic and contracting uterus
- Anatomically accurate mother
- Ability to give intramuscular injection
- Realistic blood loss volume

KEY FEATURES
- Blood loss of up to 2 liters can be simulated
- Air bulbs are used to stimulate blood flow and control atonic state of the uterus

VERSATILITY
- Use in training room or in situ as team training or with a standardized patient

SAFETY
- Latex free

WHAT’S INCLUDED

Postpartum Hemorrhage Module - PROMPT Flex
Birthing Mother - PROMPT Flex - Standard/Advanced
Abdomen - PROMPT Flex - Standard/Advanced
Postpartum Hemorrhage Kit - PROMPT Flex

80112 80212

This kit consists of the PPH module, Compression Suture Uterus and a pre-incised skin. It offers everything required for the management of postpartum bleeding and care including performing a compression suture and ligating the uterine artery.

To be used with the Birthing Simulator - PROMPT Flex - Standard/Advanced.

WHAT’S INCLUDED

Postpartum Hemorrhage Module - PROMPT Flex
Compression Suture Uterus (Pack of 2)
Pre-incised Delivery Skin for PROMPT Flex

Postpartum Hemorrhage Module - PROMPT Flex

80101 80201

This module is an optional add-on for the Birthing Simulator - PROMPT Flex - Standard/Advanced.

It allows training in the management of post-partum bleeding, and offers a realistic simulation of an atonic and contracting uterus.

WHAT’S INCLUDED

PPH Uterus Assembly - PROMPT Flex
Concentrated Venous Blood - Starter Pack (x2)
PPH Blood Container - PROMPT Flex
ECOSystems with Birthing Simulator PROMPT Flex

These ECOSystems provide all the equipment required to run the American College of Obstetricians & Gynecologists Emergencies in Obstetric Courses (ECO)

### SKILLS
- Communication and team work skills (SP)
- Shoulder dystocia
- Postpartum hemorrhage
- Umbilical cord prolapse
- Vaginal breech delivery

### 3 SIZES

The 3 ECOSystems have been designed to offer affordable and portable training for varying sizes of teaching groups from 1 to over 10 learners.

<table>
<thead>
<tr>
<th>ECOSystem</th>
<th>Small</th>
<th>Intermediate</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>80197</td>
<td>80297</td>
<td>80198</td>
<td>80298</td>
</tr>
<tr>
<td>1-5 learners</td>
<td>1 station at a time</td>
<td>5-10 learners</td>
<td>2 stations at a time</td>
</tr>
<tr>
<td>+10 learners</td>
<td>4 stations at a time</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5 STATIONS

There are 5 teaching stations in total for ECO (5th being communication). Each ECOSystem provides all the equipment needed.

<table>
<thead>
<tr>
<th>Station</th>
<th>Activity</th>
<th>80197</th>
<th>80198</th>
<th>80199</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shoulder Dystocia</td>
<td>×</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>2</td>
<td>Postpartum Hemorrhage</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3</td>
<td>Breech Presentation</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>4</td>
<td>Umbilical Cord Prolapse</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

### WHAT’S INCLUDED

Birthing Simulator - PROMPT Flex - Standard  
Birthing Mother - PROMPT Flex  
Abdomen - PROMPT Flex - Standard/Advanced  
Piper Forceps  
Postpartum Hemorrhage Kit - PROMPT Flex  

<table>
<thead>
<tr>
<th>Item</th>
<th>80197</th>
<th>80198</th>
<th>80199</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birthing Simulator - PROMPT Flex - Standard</td>
<td>✓</td>
<td>✓</td>
<td>✓ (x2)</td>
</tr>
<tr>
<td>Birthing Simulator - PROMPT Flex - Advanced</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Abdomen - PROMPT Flex - Standard/Advanced</td>
<td>×</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Piper Forceps</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
Anal Sphincter Repair Trainer

This model allows trainees to learn how to perform a 4th degree perineal repair. A stand accommodates one anal sphincter repair block.

**SKILLS**
- Recognition of internal anatomy
- Tissue handling
- End-to-end repair of the external anal sphincter
- Overlap repair of the external anal sphincter
- Repair of the internal anal sphincter and anal mucosa

**QUALITIES**

**ANATOMY**
- Hymenal remnants, vaginal mucosa, perineal skin, perineal muscles, external anal sphincter, internal anal sphincter, anal mucosa and pararectal fat

**REALISM**
- Soft skin with a similar drag and strength to human skin

**KEY FEATURES**
- Anatomically accurate, all key anatomical layers can be sutured
- Illustration pack representing each degree of perineal trauma to aid identification of key landmarks and internal anatomy

**VERSATILITY**
- Can be used alongside PROMPT Flex by placing in front of it to add further realism to the simulation
- Quick and easy to set up
- Clamps provided to secure trainer to benchtop
- Compact and portable

**WHAT’S INCLUDED**
- Anal Sphincter Repair Block (x2)
- Perineal Repair Stand with Clamps
- Perineal Repair Block loading frame
- Perineal Repair Illustration Pack
- Water Based Lubricant

Episiotomy Trainer

This cost effective model is designed to be used with the Perineal Stand in a classroom setting to ensure acquisition of confidence in the training of episiotomy. It offers repeatable training and contains an illustration pack that supports trainees in gaining confidence in performing this procedure.

**SKILLS**
- Identification of fontanelles
- Handling of a stretched perineum
- Reducing the risk of damaging the baby or mother
- Infiltration of perineum prior to episiotomy
- Performance of mediolateral (or midline) episiotomy
- Use of instruments

**QUALITIES**

**REALISM**
- Realistic representation of tissue to represent a stretched perineum

**KEY FEATURES**
- Baby head has realistic look and feel, providing landmarks and appropriate tactile response when inserting fingers to guard the baby’s head
- Repair tape increases the longevity of the episiotomy pad, allowing for multiple uses per pad
- Illustration pack to help trainees get familiarized with key landmarks and where to place the cut

**WHAT’S INCLUDED**
- Episiotomy Incision Pad (x2)
- Perineal Repair Stand with Clamps
- Episiotomy Repair Tape (x24)
- Episiotomy Baby Head
- Episiotomy Illustration Pack
Infant Hip Exam

Our Infant Hip Exam (IHE) Trainer has been designed to meet the specific requirements of healthcare professionals training to identify and diagnose developmental dysplasia of the hip (DDH). This simulator represents a 1-month-old term female and can simulate a normal, dislocated and dis-locatable or ‘lax’ hip joint, allowing for practice of Barlow and Ortolani maneuvers as well as the Galeazzi sign. The baby has been designed with interchangeable normal and abnormal leg modules and one Upper torso.

**QUALITIES**

**ANATOMY**
- Palpable greater trochanter on the left and right femurs to aid correct hand placement
- Articulating hip, knee and ankle joints for the Barlow and Ortolani maneuvers and Galeazzi sign

**REALISM**
- Realistic ‘clunk’ can be felt when resetting the dislocated hip
- Anatomically accurate 1 month old female infant

**KEY FEATURES**
- Quick and easy to set up
- Durable model that allows for repeated training using the Barlow and Ortolani maneuvers
- Normal hip module – allows trainees to understand the haptics of a normal hip
- Abnormal hip module - one hip that is dislocated and can be maneuvered into and out of the correct position using the Barlow/Ortolani technique and one dis-locatable or ‘lax’ hip that can be dislocated and relocated when using the Barlow/Ortolani technique
- Articulating knee and ankle joints mean the baby’s feet can be placed flat on a bed replicating the Galeazzi sign

**VERSATILITY**
- Interchangeable lower modules allow trainees to recognize normal hips as well as two types of abnormal hip

**SAFETY**
- Latex free

**WHAT’S INCLUDED**
- IHE Upper
- IHE Lower Normal
- IHE Lower Abnormal
- IHE Illustration Card
TruBaby X provides a complete solution for pediatric clinical skills training.

Incredibly lifelike with the appearance, weight, size and movement of a 5-month-old infant.

**QUALITIES**

**ANATOMY**
- Palpable vertebrae landmarks including the iliac crest for performing lumbar puncture
- Contains the dorsal venous arch, great and lesser saphenous veins allowing needle cannulation at various locations
- Realistic rib structures including xiphoid process, clavicle and sternum
- Palpable landmarks in the 2nd and 5th intercostal space
- Features the tibial tuberosity and patella anatomy which facilitates for the identification of the proximal tibia intraosseous needle insertion site

**REALISM**
- Appearance, weight, size, and movement of a 50th Percentile 5-month-old infant
- Internal fluid flow for realistic blood flashback during IV cannulations

**KEY FEATURES**
- Features the AirSim X Airway which provides realistic and durable training and comes with a 5-year warranty
- Accurate needle placement allows for positive LOR response and collection of simulated cerebrospinal fluid (CSF) during lumbar puncture
- Audible hiss when needle is successfully inserted for needle thoracentesis
- Facilitates either the Seldinger chest drain insertion technique or the needle thoracentesis approach for the treatment of a pneumothorax

**VERSATILITY**
- Interchangeable male and female genitalia for urethral catheterization
- Interchangeable ultrasound arm for PICC line insertion
- The model has been designed as fully interchangeable, all the parts are cost effective and can be replaced quickly when required. Initial set-up time is less than 5 mins

**SKILLS**
- Airway management
- Peripheral Venous Cannulation
- Lumbar Puncture
- PICC line insertion
- Needle Thoracentesis and Chest Drain
- Urethral Catheterization (male and female)
- CPR
- IO Tibia

**WHAT’S INCLUDED**

- TruBaby X Model
- Needle Decompression Inserts (x1 Left & x1 Right)
- Chest Drain Inserts (x1 Left & x1 Right)
- TruBaby X Ultrasound Arm (x1 Left & x1 Right)
- TruBaby X IO Inserts (x3 Left & x3 Right)
- TruBaby X Lumbar Puncture Insert
- TruBaby X Carrier case
- USB pen drive user manual
- Bottle of TruCorp lubrication (100 ml)
- Bottle of artifical blood concentrate (250ml)
- Syringes with tubing and quick fit connectors (x2)
The AirSim® Baby X, based on a 0 to 6-month-old, provides a realistic and anatomically correct pediatric manikin for airway management training.

The manikin facilitates training in the use of bag/mask ventilation, supraglottic airway insertion and both naso and orotracheal intubation.

**SKILLS**
- Double nasotracheal intubation
- Bag and mask ventilation techniques
- Full range of supraglottic devices
- Direct and video laryngoscopy
- Endotracheal tube insertion

**QUALITIES**

**REALISM**
- ‘Real feel’ skin covering for added realism
- Realistic external and internal anatomical features allow for easy and successful demonstration of all pediatric videolaryngoscopes

**KEY FEATURES**
- Realistic feedback during airway management procedures including bag/mask ventilation, supraglottic airway insertion, both naso and orotracheal intubation

**WHAT’S INCLUDED**
- AirSim Baby X
- Baby lung bag set
- Airway lubricant
- USB user manual
- Carry case

Ideal for practicing oral and nasal intubation training techniques, percutaneous tracheostomy and emergency cricothyroidotomy on a 6-year-old child.

**SKILLS**
- Double nasotracheal intubation
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- Oral and nasal intubation
- Laryngeal mask airway and supraglottic device insertion
- Combi tube insertion
- Fiberoptic intubation and video laryngoscopy
- Bag and mask ventilation techniques

**QUALITIES**

**REALISM**
- A realistic larynx which features palpable cricoid landmarks, laryngeal cartilages and tracheal rings

**KEY FEATURES**
- A tongue bulb which can be inflated to create tongue edema providing a variance during training
- User feedback through the visualization of stomach inflation and lung expansion

**VERSATILITY**
- Cost-effective replaceable consumables; the neck skin can be rotated on the model allowing up to twenty incisions, while the larynx insert can facilitate one surgical cricothyroidotomy and three tracheostomy procedures.
- All consumables are quick and easy to interchange, perfect for a busy teaching environment

**WHAT’S INCLUDED**
- AirSim Child Combo X
- Child lung bag set
- Spare larynx inserts (x4)
- Airway lubricant
- USB user manual
- Carry case
**Pediatric Lumbar Puncture Simulator II**

Designed to represent a 7 to 10-month-old infant, this model is used to practice the lumbar puncture procedure.

**SKILLS**

- Skin preparation
- Patient positioning
- Palpation of landmarks
- Sterilization and local anesthesia
- Needle positioning and insertion
- Cerebrospinal fluid (CSF) collection and pressure measurement

**QUALITIES**

**REALISM**

- Body of the manikin is soft and flexible

**KEY FEATURES**

- Realistic tissue resistance
- Iliac crests and spinous process are present and palpable
- Cerebrospinal fluid (CSF) collection and pressure measurement

**VERSATILITY**

- Puncture block is quick and easy to replace
- Puncture sites not visible on skin
- Successful puncture is confirmed by the simulated CSF (water) flowing out
- CSF pressure can be measured with a manometer
- Variation of puncture depth

**WHAT'S INCLUDED**

- Pediatric Lumbar Puncture Block (12mm) (x2)
- Pediatric Lumbar Puncture Block (17mm) (x2)
- Baby manikin
- Stand
- Irrigation bag & syringe

---

**Nita Newborn**

An anatomically correct manikin representing a 1.8kg, 40cm long female baby for teaching and practicing the vascular accessing of newborns and infants.

**SKILLS**

- Placement, suctioning, securing, dressing, cleansing and maintenance of nasal cannulas, endotracheal tubes, nasotracheal tubes and feeding tubes
- Central catheter insertion, securing, dressing & maintenance
- IV and PICC line insertion, securing, dressing & maintenance
- Umbilical catheterization
- Venipuncture including heparinization and fluid infusion

**QUALITIES**

**ANATOMY**

- Venipuncture sites include:
  - Median, basilic and axillary sites in both arms
  - Saphenous and popliteal veins in right leg
  - External jugular and temporal veins

**REALISM**

- A ‘pop’ is felt as the needle enters the vein with a realistic flashback of blood confirming proper needle placement

**KEY FEATURES**

- Veins specifically designed with a small internal diameter to make accessing more challenging

**WHAT’S INCLUDED**

- Infant manikin
- Fluid bag and tubing
- Simulated blood
- Nappy
- Carry case

---
TruNerveBlock is a 3-in-1 learning module designed for trainee anesthetists to develop, practice and maintain the necessary skills to perform ultrasound-guided regional anesthesia and vascular access procedures.

The model features a fractured bone structure, embedded vessels, and additional nerve bundles for regional anesthesia.

**SKILLS**
- Probe positioning and movement
- Recognition of arterial and vein vessels and nerves in soft responsive tissue
- Using ultrasound to target a nerve for ultrasound guided regional anesthesia
- Ability to verify needle tip location and to practice the entire regional anesthesia procedure
- Visualizing of the artery and vein laterally beside the nerve
- Fracture assessment detection of a fracture and diagnosing bone stress injury

**QUALITIES**
- Contains epidermal layer, two simulated vessels, a nerve bundle, a fractured bone and fascia layers

**ANATOMY**
- Arm - basilic, cephalic and dorsal veins
- Leg - saphenous and popliteal veins
- Umbilical cord
- Lungs
- Ribs
- Airway

**REALISM**
- Soft, lifelike umbilical cord can be cut and catheterized and is easy to replace
- Non-rigid, flexible neck
- Veins can be visualized using a real LED transilluminator

**KEY FEATURES**
- Supports 3 types of injection and catheterization training: direct vision, transilluminated and ultrasound guided PICC

**CLEANING & CARE**
- Skin is washable using soap and water
Freddie Fistula™ Skills Trainer

This realistic skills trainer facilitates the instruction and practice in the management of open abdominal wounds with active fistulas.

**SKILLS**
- Competency and confidence in stoma identification
- Identifying the source of effluent flow
- Management of drainage
- Employment of wound dressing materials and techniques (including negative pressure wound therapy)

'Seat' Pressure Injury Staging Model™

A compact, comprehensive model with realistic pressure injuries to aid in the identification and assessment of wounds.

**SKILLS**
- Wound identification and assessment
- Routine cleansing
- Dressing techniques

Seymour II Wound Care Model™

Based on a 74-year-old patient, this model aids in the identification and assessment of wounds. Once the different etiologies are understood, it can be used to discuss and devise treatment plans.

**SKILLS**
- Wound assessment (classification & staging)
- Wound cleansing
- Dressing techniques
- Measurement of wound length, depth, undermining and tunnelling
- Negative pressure wound therapy

'Wilma' Wound Foot™

Based on an 80-year-old patient for a true-to-life appearance, the model offers 20 conditions which allow for the identification and staging of wounds and their probable causes.

**SKILLS**
- Wound assessment
- Routine cleansing
- Dressing techniques
FUNDAMENTALS OF LAPAROSCOPIC SURGERY™

Approved by the SAGES-ACS FLS Committee, the FLS trainer system is the only approved hands-on equipment for training and assessment.

FLS is a joint educational offering of the American College of Surgeons (ACS) and the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES). The FLS trainer system is appropriate for learning fundamental skills needed in many laparoscopic surgery specialties, including general surgery, gynecology and urology.

The systems are complete with training box and TV camera alongside a range of tasks designed to develop the skills necessary to perform the fundamentals of laparoscopic surgery.

QUALITIES

• Skin frame constructed from durable neoprene
• 2 pre-incised holes for the trocars
• Trainer systems come with a TV camera
• Trainer design allows for ambient light to enter the training area
• Overhead LED lighting strip

SKILLS

• Laparoscopic surgery
• Tasks:  - Peg transfer
  - Precision cutting
  - Ligating loop
  - Knot tying

FLS Trainer Box with TV Camera

50302

This product is economical and portable, making it ideal for training centres.

Visit fls-products.com for more information about a range of tasks

Note that users must provide their own TV screen
The brand-new Advanced Training in Laparoscopic Suturing (ATLAS) training kit is a laparoscopic surgery simulator designed to deliver high level minimally invasive suturing training.

This unique trainer helps to prepare surgeons for all forms of laparoscopic surgery, including those where the angle of view and allowance of suturing space is more restrictive.

ATLAS facilitates six task modules that act as a benchmark for minimally invasive training and progression:

- Needle handling and positioning
- Forehand suturing
- Backhand suturing
- Confined space suturing
- Suturing under tension
- Continuous suturing

See our website for the only ATLAS approved kits for training and assessment.
Endoscopy Training System

**KKMW39**

Specifically designed to improve endoscopic performance as measured by national assessment programs such as the Fundamentals of Endoscopic Surgery™ (FES), Global Assessment of Gastrointestinal Endoscopic Skills (GAGES) and Assessment of Competency in Endoscopy (ACE).

Developed in partnership with Kyoto Kagaku, and in collaboration with the development team at the National Capital Region Simulation Consortium, and the USU / Walter Reed Department of Surgery.

**QUALITIES**

**REALISM**
- Built upon a platform identified as highly realistic in trial comparing GI endoscopy simulators
- Allows use of actual colonoscope
- Requires use of suction and insufflation for optimal performance
- Haptic feedback nearly identical to actual endoscopy

**KEY FEATURES**
- Electronic sensors provide visual and auditory feedback and help track task completion
- 5 discrete tasks facilitate deliberate practice and distributed training
- Peer reviewed evidence for effective use in assessment and training
- Established proficiency based skills curriculum with expert derived performance benchmarks for each task

**VERSATILITY**
- Represents fundamental skills for all types of endoscopy
- Can be used to simulate a simple colonoscopy, redundant sigmoid, alpha loop, reverse alpha loop and others
- All tasks are reusable so there is no additional cost for consumables

**SKILLS**

- **Scope manipulation**
  Performing basic endoscopic navigation, using tip deflection and torque of the scope

- **Tool targeting**
  Hand-eye coordination with biopsy forceps and an endoscope

- **Retroflexion**
  Bending the endoscope backward to identify and navigate to targets. Simulates evaluation of cardia of stomach and distal rectum

- **Loop management**
  Scope navigation to manage the correct reduction of a standard alpha loop

- **Mucosal inspection**
  Via the colon, evaluation and identification of polyps

**WHAT'S INCLUDED**
- Colon model with cover
- Straight colon model with feedback tones and lights
- Scope manipulation screen overlay
- Simulated biopsy tool
- Power supply
- User guide
Designed to meet the core training needs and essential skills required at undergraduate level in the USA today.
NURSE TRAINING

Nursing is at the heart of healthcare, and these products reflect the core simulation training needs required for undergraduate and postgraduate nursing in the USA today.
For training in ultrasound guided procedures, the range is made of materials similar to human tissue, allowing trainees to practice advanced visualizing or injecting techniques while using ultrasound imaging for accuracy.
This range offers a cost effective solution to the simulation equipment needed for ATLS 10th Edition making it easy for training providers to deliver this course.
From patient assessment and basic care in years 1 & 2, to more advanced skills in year 3, this range covers essential training elements required for training paramedics.
It’s important students feel confident taking the Objective Structured Clinical Examination. These products are designed to train and test clinical skill performance for the OSCE.
Spanning both Paramedic and Emergency Medicine, our range of simulators includes both physical examination and procedural trainers.
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We at Limbs & Things are constantly inspired by the hard-work, tenacity, and courage shown by medical professionals all over the world. It’s what motivates us to do our job; to assist you in achieving greatness. For all the blood, sweat and tears shed by medical staff this past year, and for all the hard work to come, we would like to thank you and we will continue to support your efforts as best we can.

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