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By increasing realism, we develop true to life responses.

The Clean Bleed™ Mat has been designed to support any simulation scenario, with any brand of trainer, 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.

Housed in a carry case, this patent pending product allows the impression of blood flow from a reservoir of blood, through a quiet pump into a sealed mat, for use in both inside and outdoor settings.

The sealed mat can be used under or beside any simulated patient, full body manikin or part task trainer. Discrete tubing flows from the reservoir to the durable internal absorbent pad (housed within the sealed mat). As the clean bleed bag fills, the absorbent pad behaves as an inco/chux pad would.

Management of the blood flow is controllable, allowing flow rates between 50ml to 600ml per minute for the wide range of simulated scenarios.

At the end of the simulation, the blood can be pumped back into the reservoir and the internal mat rinsed under cold water to be used again, saving valuable resources of time and money.

This easy to setup, hassle and mess free product creates the impression of a hemorrhage through a controlled flow into a sealed mat. Without any spills, the flow can be adjusted during the simulation creating a realistic stimulus that enables the clinician or trainee to quickly recognize and respond to the simulated emergency.

Housed in a carry case, this patent pending product allows the impression of blood flow from a reservoir of blood, through a quiet pump into a sealed mat, for use in both inside and outdoor settings.

The sealed mat can be used under or beside any simulated patient, full body manikin or part task trainer. Discrete tubing flows from the reservoir to the durable internal absorbent pad (housed within the sealed mat). As the clean bleed bag fills, the absorbent pad behaves as an inco/chux pad would.

Management of the blood flow is controllable, allowing flow rates between 50ml to 600ml per minute for the wide range of simulated scenarios.

How does it work?

KEY FEATURES & BENEFITS

• No mess, no fuss, easy set up
• Unique sealed blood flow, heightening the realism of simulation
• Controllable flow of blood
• Portable and durable for use both indoors and outside
• 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 saving 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
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 or meconium fluid); 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.

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 usage.

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).
Clinical Female Pelvic Trainer (CFPT) Mk 3 - Standard & Advanced

**STANDARD**

| 60900  | 60930 |

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.


**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

![Image of CFPT Mk 3](image)
WHAT'S INCLUDED

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| Carry case                                                          | ✓     | ✓(x2)
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
SKILLS

- 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

WHAT’S INCLUDED

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OPTIONAL EXTRAS

40209  Medium Carry Case

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

**STANDARD**

60950  60964

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.

**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 testes, 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

**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

**VALIDATED**


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

**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
## WHAT’S INCLUDED

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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)

**QUALITIES**

* Advanced model

**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
**WHAT’S INCLUDED**

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**OPTIONAL EXTRAS**

- **60172** Standing Position Stand
- **40209** Medium Carry Case
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.

**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**

- **ACUTE URINARY RETENTION - BLADDER**
- **SLIGHTLY ENLARGED LIVER**
- **OVARIAN CYST - SMOOTH SOFT MASS**
- **ENLARGED KIDNEY**
  - CARCINOMA ON MASS IN LEFT ILIAC FOSSA
  - CARCINOMA WITH LIVER METASTASIS
  - LYMPHOMA
  - AORTIC ANEURYSM
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

- Abdominal Examination Base Unit
- Abdominal Examination Skin
- Abdominal Examination Rectus Bag
- Abdominal Examination Organ Locator
- Abdominal Wall
- Abdominal Examination Livers (Set of 3)
- Abdominal Examination Spleens (Set of 2)
- Abdominal Examination Kidneys (x2)
- Abdominal Examination Bladder
- Abdominal Examination Pathologies (Set of 6)
- Abdominal Examination Aortas (Set of 2)
- Abdominal Examination - Distension Set
- International 5V DC Power Supply
- AA Batteries (x4)
- Carry case (x2)

You may also be interested in:
60002 Abdominal Examination Trainer Value Set
Visit limbsandthings.com
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 (manikin)
- Eyeballs with lenses
- Eyelids

**REALISM**
- Lens-equipped eyeballs reproduce a realistic visual axis and view of eyegrounds
- Soft and supple material allows hands-on simulation of raising the eyelids

**KEY FEATURES**
- Unique set of image-processed slides taken from real cases provide a highly realistic 3D perspective
- 3-step pupil diameter variations (2.0mm, 3.5mm, 5.0mm)
- 3-step depth setting slide locator simulates hyperopic, normal and myopic views
- Red reflex
- 10 common diseases/conditions:
  - Normal eyeground
  - Hypertensive retinopathy:
    - arteriolar vasoconstriction grade 3, arteriolosclerosis grade 1, hemorrhages and cotton wool spots, simple vein concealment
  - Simple/background diabetic retinopathy:
    - microaneurysm, hemorrhages and hard exudates
  - Papilledema (chronic phase)
  - Papilledema (acute phase)
  - Glaucomatous optic atrophy: glaucomatous optic disc cupping and nerve fiber defect
  - Retinal vein occlusion (acute phase): flameshaped hemorrhage and cotton wool spots
  - Retinal vein occlusion (after retinal laser photocoagulation)
  - Toxoplasmosis: retinochoroiditis
  - Age-related macular degeneration: macular exudates and subretinal hemorrhage

**SKILLS**
- Use of an ophthalmoscope (not supplied)
- Examination technique
- Identification of up to 90 cases
- Communication skills

### WHAT’S INCLUDED

- Ocular Fundus Slides (Set of 10)
- Manikin head & shoulders
- Slide holder
- 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.

**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
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

**WHAT’S INCLUDED**

- Life size manikin
- Laptop PC
- Terminal box
- Sphygmomanometer unit
- EKG electrodes unit
- Set of clothes

**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, 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

**SAFETY**
- Latex free

**CLEANING & CARE**
- Washable using soap and water
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.

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.

Basic Venipuncture Arm

70304 70305

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

Standard Venipuncture Arm

70302 70303

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

Advanced Venipuncture Arm

70300 70301

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

---

**FEATURES**

- Patented skin locking mechanism
- Vein gripping system for easy set up
- Modular veins for cost effective training
- Realistic palpable veins
- Realistic blood flashback
- Extended tubing for hybrid simulation
- Gravity system
- Pressurized fluid system

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**WHAT’S INCLUDED**

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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.

**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**
- The pad can be connected to the Mock Blood Giving Set (60651) to simulate blood flow
- Only use Mock Blood - Venous (250ml) (00223) to refill these veins

**SAFETY**
- Tough backing plate to prevent needlestick injuries
- Epidermis and 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

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.

Three Vein Pad - Venipuncture

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
Cutdown Pad

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
- The pad can be connected to the Mock Blood Giving Set (60651) to simulate blood flow. Only use Mock Blood - Venous (250ml) (00223)

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

SAFETY
- Contains latex

WHAT’S INCLUDED

- Cutdown Pad

Concentrated Venous Blood

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 Arms Range
- Postpartum Hemorrhage Kit
- Clean Bleed™ Mat
- Arterial Puncture Wrist

Mock Blood - Venous

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

Mock Blood - Arterial

250ml of synthetic solution made to the correct color and viscosity of arterial blood.
Arterial Puncture Wrist

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

Injection Trainer

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
Central line & port management

- 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

Ultrasound CVC Insertion Simulator Mk 3

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, supravacular, axillary and internal jugular approach to catheterization

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

**REALISM**
- Lifelike needle tip resistance
- Excellent image quality
- Palpable landmarks and carotid arterial pulsation

**KEY FEATURES**
- 2 CVC placement pads
- 1 transparent anatomical block
- Blue and red fluid confirms successful and unsuccessful needle placement

**WHAT’S INCLUDED**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>Male upper torso manikin</td>
<td>Air bulb</td>
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<tr>
<td>CVC pads (x2)</td>
<td>Plastic jars (x2)</td>
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<tr>
<td>Transparent anatomical block</td>
<td>Irrigation bottle</td>
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<td>Skin for cannulation training</td>
<td>Syringe</td>
</tr>
<tr>
<td>Mock blood powder sachets</td>
<td>Sample needle</td>
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</tbody>
</table>

Vaccine IM Injection Trainer (Pack of 10)

**NEW**

Allowing for quick and effective training, this trainer facilitates the administration of vaccines via the intramuscular route. Provided as a pack of 10, this product enables mass tabletop learning in all training environments.

The trainer features realistic and easily identifiable tissue layers that represent the dermis, fat, and muscle layers. The receptive anatomical layers make this an ideal tool for teaching correct needle positioning to beginners and to those with more clinical experience.

The fluid absorbent pad allows learners to experience repeatable and realistic training.

**SKILLS**
- Intramuscular injection and vaccination technique
- Management of tissue
- Allows for the discussion of needle size and angle of injection

**QUALITIES**

**ANATOMY**
- Dermis, fat and muscle layers

**REALISM**
- Realistic elasticity of skin
- Skin is soft and warm to the touch

**KEY FEATURES**
- Facilitates intramuscular injection
- Withstands liquid injection
- Realistic anatomical layers are easily identifiable
- Durable material is long lasting

**VERSATILITY**
- Realistic tissue layers facilitate true to life needle resistance
- Receptive muscle layer allows trainees to identify if the needle has travelled too far

**SAFETY**
- Latex free
- When practicing injection, only use water
- Ensure the product is dried after use and before storage

**CLEANING & CARE**
- Cleaning with Milton fluid is recommended
Chester Chest™ enables the teaching of central line care for physicians, nurses, home health staff, patients and support persons to develop competence in the management of most common types of vascular access devices.

**SKILLS**
- Fluid infusion and withdrawal
- Dressing and securement techniques

**QUALITIES**

**REALISM**
- Successful access is confirmed by a blood return
- Fluid can be infused and blood withdrawn from all the lines

**KEY FEATURES**
- Prepositioned surgically implanted CVC and PICC line
- Chest has a real implanted vascular access device (IVAD)
- Openings to attach optional triple lumen and subclavian catheters

**VERSATILITY**
- Can be used in upright and supine positions
- 3 difficult access inserts are supplied simulating the following port placements:
  - Tipping
  - Wandering
  - Deeply placed

**WHAT’S INCLUDED**
- Real Chest Port (IVAD)
- Dual Lumen 5FR PICC Catheter
- 9FR Tunneled Central Catheter
- Chest Tissue Flap
- 3 Difficult Access Inserts
- Torso with detachable standard arm
- Blood reservoir bag in the torso & arm
- Base

Peter PICC Line™

**VTA0600**

Designed for practicing blind insertion, care and removal of Peripherally Inserted Central Catheter (PICC) lines.

**SKILLS**
- Site selection
- Measurement of proper catheter length
- Patient positioning
- Insertion and advancement of PICC Line
- Visual confirmation of proper catheter placement
- Catheter securing/dressing
- Catheter maintenance procedures

**QUALITIES**

**ANATOMY**
- Anatomically accurate cephalic, basilic, median basilic, jugular and subclavian veins, and superior vena cava

**REALISM**
- Chin can be positioned to simulate occlusion of jugular
- Palpable clavicle, ribs and intercostal spaces

**KEY FEATURES**
- Replaceable translucent arm skin allows visualization of veins

**SAFETY**
- Veins contain latex

**WHAT’S INCLUDED**
- Arm Vein Tubing Set
- Body Vein Tubing Set
- Arm Skin
- Body Skin
- Rib
- Muscle Tissue
- Superior Vena Cava Viewing Vial
- 500ml Fluid Bag
- Carry case
Ultrasound Guided PICC Training Simulator

KKMW18

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

- Puncture Pads for Ultrasound Guided PICC Training Simulator (x2)
- Upper torso
- Simulated blood sticks (swab type) (x10)
- Male upper torso with the right arm
- Syringe
- Instruction manual
- Jar
- Storage case
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 advance 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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</table>
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

PAD FEATURE COMPARISON

<table>
<thead>
<tr>
<th>ADVANCED</th>
<th>STANDARD</th>
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</thead>
<tbody>
<tr>
<td>60232</td>
<td>60234</td>
</tr>
<tr>
<td>61232</td>
<td>61233</td>
</tr>
</tbody>
</table>

- 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>
<th>61230</th>
</tr>
</thead>
</table>

- Needle Decompression Pads (x2)
- Advanced Chest Drain Pads (x2)
- Standard Chest Drain Pads (x2)
- Chest Drain Rib Frame (Left)
- Chest Drain Rib Frame (Right)
- Chest Drain Lungs (x2)
- Chest Drain Diaphragms (x2)
- Chest Drain Ribs (x12)
- Chest Drain Pump: Respiratory Swing
- Chest Drain Pump: Needle Decompression
- Chest Drain Slotted Retaining Knobs
- Key with keyring
- Torso
- Carry case
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 fibre optic examination
- Combi tube insertion
- Video laryngoscopy (incl. Sellick Manoeuvre)
- Naso gastric tube insertion techniques
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy

**WHAT'S INCLUDED**

<table>
<thead>
<tr>
<th>WHAT'S INCLUDED</th>
<th>ADVANCE X</th>
<th>COMBO X</th>
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</thead>
<tbody>
<tr>
<td>AirSim Advance X model</td>
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<td>AirSim Combo X model</td>
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<td>Spare larynx inserts (x4)</td>
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<tr>
<td>Adult lung bag set</td>
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<tr>
<td>Bottle of lubrication (100ml)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>USB user manual</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Carry case</td>
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</table>

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

**KKMW15**

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

**KKMW8**

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
Patient Care Simulator “Yaye”  

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

Visit limbsandthings.com for more information about Optional Consumables
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.

LUMBAR PUNCTURE & EPIDURAL RANGE
**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>Lumbar puncture</td>
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<tr>
<td>Obese option</td>
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</table>
Paracentesis Trainer

This trainer fulfills the fundamental component of core medical 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 practice 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 Bowl
- 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.

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

• 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

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

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

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

CHOOSE YOUR PRODUCT
- 11 Online Module
- Suture Tutor Plus Hands-on Kit

Hands-on 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.

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

STP-PRO-SUB

STP-PRO-COM

STP-KIT

ONE YEAR INSTITUTIONAL MULTI-USER AND TRAINER LICENCES ARE ALSO AVAILABLE - PLEASE CONTACT CUSTOMER SERVICE FOR DETAILS.
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 transfixion
- 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 tying trainer
- Skin pad jig with skin pad
- BSS soft tissue retaining set
- Hemostasis pad

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**

**WHAT’S INCLUDED**

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

**BSS Day 2 Refill Pack**

**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

CONSUMABLES

50060 BSS Professional AOCT Pad
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

KEY FEATURES
- Supplied in handy, compact clam pack with lid which can be used to retain excised tissue and removed foreign bodies

SAFETY
- Veins contain latex

WHAT’S INCLUDED

BSS Lesion & Cyst 50074

For the practice of abscess drainage and necrotic wound debridement (abscess containing simulated pus). This product is also available as part of the BSS Day 2 Kit (50071).

SKILLS
- Abscess drainage
- Necrotic wound debridement

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

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

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

QUALITIES

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

KEY FEATURES
- Supplied in handy, compact clam pack with lid which can be used to retain excised tissue and removed foreign bodies

SAFETY
- Veins contain latex

WHAT’S INCLUDED

BSS Traumatic Wound 50047

BSS Surgical Skills Board 50051
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

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
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

**QUALITIES**

**ANATOMY**
- 3 common oral pathologies: papule, macule and ulcer

**KEY FEATURES**
- Cost effective pad allows several biopsy attempts
- Pad dimensions: 125mm x 72mm

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

**SAFETY**
- Latex free

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

**QUALITIES**

**REALISM**
- Stretches to allow realistic extension of the tissue surrounding the skin tags during snip excision
- Stretches to allow realistic extension of nevi during shave excision
- Allows seborrheic keratoses to be removed using curettage technique

**KEY FEATURES**
- Cost effective: large pad with 4 skin tags, 4 naevi and 4 seborrheic keratoses. The small pad has 2 of each
- Pad dimensions: large 145mm x 125mm, small 125mm x 72mm

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

**SAFETY**
- Latex free
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
• Wedge excision - partial nail avulsion
• Application of a tourniquet
• Phenolization techniques

QUALITIES

KEY FEATURES
• Cost effective: 3 toe ends in the set
• 2 wedge excision procedures can be carried out on each toe end
• Toe ends can be replaced in seconds

SAFETY
• Latex free

WHAT'S INCLUDED

Toe Jig
Toe Ends (x3)

Colles' Fracture Reduction Trainer

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 focused 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

VERSATILITY
• Trainer can be used in teams, or by individuals using the stand
• Adjustable tension makes it a perfect tool for OSCE courses

SAFETY
• Latex free

Available from April 2021

NEW
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. Both models share a common torso but offer different levels of complexity to support trainees from early learning through to specialist level.

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

70202 70221

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.

**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 epicondylitis)
  - Golfer’s Elbow (medial epicondylitis)
• 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
  - Plantar Fascia
  - Sinus Tarsi
  - Retrocarnal 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 2193585
- ZL98806331
- HK1023832
- 755575 Australia
The 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 the outcomes for mothers and babies during childbirth.

PROMPT Flex Enhanced Standard Baby

The PROMPT Flex Standard Baby has close to life range of articulation in the shoulder and hip joints, allowing an accurate experience with both delivering and handling the baby.

The addition of flexion at the thoracolumbar region provides accurate training experience and enhances realism in vaginal deliveries and c-section maneuvers.

Note that flexion at the thoracolumbar region only affects the PROMPT Flex Standard Baby.
Additional modules

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

Perineal Repair Trainer

Our new Perineal Repair Trainer can be used alongside PROMPT Flex by placing in front of it to add further realism to the simulation.
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.

PROMPT Flex - Standard

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.

PROMPT Flex - Advanced

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.

Tablet not included
Download app at limbsandthings.com

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

SKILLS

• Communication & team work skills (SP)
• Normal
• Breech
• Shoulder dystocia management
• Instrumental (forceps & vacuum devices)
• Delivery of placenta
• Cord prolapse
• Urinary catheter placement
• IM injection pads
• Force feedback of baby’s head
• App with scenarios & force monitoring

WHAT’S INCLUDED

<table>
<thead>
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<tr>
<td>Placenta</td>
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<td>Perineum and Birth Canal</td>
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<td>✓</td>
</tr>
<tr>
<td>Bed Straps</td>
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<td>✓</td>
</tr>
<tr>
<td>Lubricant</td>
<td>✓</td>
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<tr>
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</table>
PROMPT Flex - Cervical Dilatation & Effacement Module

允許對兩個相連的診斷圖像進行查詢。這個模塊是一個可選的附加品，適合於PROMPT Flex標準版或進階版。

Ideal for midwifery training.

SKILLS

- 评估和比尔特的评分
  - 子宫口扩张（1-10cm）
  - 子宫口软化（0-100%）
  - 子宫成熟度/硬度（软、中、硬）
  - 子宫位置（前、中、后）
  - 胎儿位置（-3至+3）
- 评估人工破膜
- 评估呈示部分 - 弯曲、弯反、头、脸、臀、帽和造型

VERSATILITY

- 呈示部分和宫颈可以在模型外设置，用于演示，然后放置在模型内进行检查

WHAT'S INCLUDED

- 胎盘
- 骨盆环
- 静态支架
- 动态支架
- 7套潜在宫颈
- 动态宫颈
- 5套呈示部分
- 2套难产头部
- 羊膜囊
- 3套帽（x2）

QUALITIES

REALISM

- 真实的宫颈代表，包括前唇，和呈示部分在柔软的阴道内，显示可触及的坐骨棘

KEY FEATURES

- 插入器表示早期的宫颈 - 软化、扩张和成熟，符合比尔特的评分
- 定位机制允许调整站位、扩张和倾斜
- 动态定位机制允许在活跃的劳动中调整扩张
- 标记允许导师在原位上读取定位
- 多个呈示部分插入器包括
  - 弯曲
  - 弯反
  - 头
  - 脸
  - 臀
  - 帽和造型

SAFETY

- 无乳胶
PROMPT Flex - Cesarean Section Module

Ideal for practicing the necessary skills required when performing a cesarean section. Trainees can have exposure to delivering a difficult baby such as a deeply impacted head, or a transverse lie.

It includes 2 surgical pads for incision and suturing, along with a pre-incised abdomen for repeated delivery practice to help improve confidence and familiarity of maneuvers.

QUALITIES

REALISM
- Abdominal skin has realistic appearance and soft feel of at-term abdomen
- Realistic feel of uterus interior during delivery
- Head presents at realistic level once incision is made

KEY FEATURES
- Uterus holds baby firmly in position for normal and transverse lies, breech and cephalic presentations
- Uterus support positions baby and directs it towards the pelvis/abdominal incision when fundal pressure is applied
- Pre-incised skin option allows easy repeat delivery practice
- Surgical pad allows realistic dissection and closure and is reversible to allow 2 uses
- Single/double in situ uterine wall closure
- Suturing of rectus sheath, fat and subcuticular or cutaneous skin closure
- Accommodates retraction using metal, plastic or rubber retractors

VERSATILITY
- Optional insert to allow presentation of head just below ischial spines for cesarean section at full dilation

SAFETY
- Latex free

The module can be used to practice any of the following methods of delivering a deeply impacted fetal head:

- Routine maneuvers
- Assist from a vaginal hand (push technique)
- Reverse breech extraction (pull technique)
- Use of a fetal pillow

WHAT’S INCLUDED

- Cesarean Section Surgical Pad (x2)
- Perineum
- Uterus for Cesarean Section Module
- Pre-incised Delivery Only Skin
- Surgical Skin
- Cervix for Cesarean Section Module
- Foam Uterus Support
- Full Dilatation Pelvic Insert
This module is an optional add-on for the PROMPT Flex Standard or Advanced Birthing Simulator. It allows training in the management of post-partum bleeding, and offers a realistic simulation of an atonic and contracting uterus.

**REALISM**
- Atonic uterus can simulate contraction on fundal massage

**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**
- Can be quickly and easily fitted into the birthing mother to allow simulation of situations where bleeding occurs directly after delivery

**SKILLS**
- Management of postpartum bleeding:
  - Fundal massage
  - Bi-manual compression
  - Hemostatic balloon insertion and management
- Communication skills with mother when used with Simulated Patient
- Intramuscular injection
- Estimating blood loss

**WHAT’S INCLUDED**
- PROMPT Flex PPH Uterus Assembly
- Concentrated Venous Blood - Starter Pack (x2)
- PROMPT Flex PPH blood container
PROMPT Flex - Postpartum Hemorrhage Kit

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 PROMPT Flex Standard or Advanced.

**SKILLS**

- Management of postpartum bleeding:
  - Fundal massage
  - Bi-manual compression
  - Hemostatic balloon insertion and management
- Estimating blood loss
- All common types of compression suture procedures including:
  - B-Lynch
  - Hayman
  - Pereira
- Dissection of broad ligament
- Ligation of uterine arteries
- Professional-to-patient communication skills

**QUALITIES**

**REALISM**

- Atonic uterus can simulate contraction on fundal massage
- Compression Suture Uterus includes uterine arteries, uterine veins and broad ligament

**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
- Multiple uses when conducting a compression suture

**VERSATILITY**

- Each uterus can be used up to 20 times
- Can be quickly and easily fitted into the birthing mother to allow simulation of situations where bleeding occurs directly after delivery

**WHAT’S INCLUDED**

- PPH Module
- Compression Suture Uterus (Pack of 2)
- Pre-incised Delivery Skin for PROMPT Flex
PROMPT Flex - Cervical Cerclage Module

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
PERINEAL REPAIR AND EPISIOTOMY TRAINER RANGE

This multifaceted model allows trainees to learn how to perform a perineal repair. A common stand accommodates one anal sphincter repair block and a choice of two different perineal repair blocks to suit regional preferences. The non-incised block is an additional option to tailor bespoke training requirements.

**Midline Perineal Repair Trainer**

**Mediolateral Perineal Repair Trainer**

**Anal Sphincter Repair Trainer**

**Perineal Repair Trainer**

**QUALITIES** (Common across the Perineal Repair Range)

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

**REALISM**
- All essential layers of tissue can accept repeated sutures
- Soft skin with a similar drag and strength to human skin

**KEY FEATURES**
- Cost effective as all layers can be sutured repeatedly
- Durable, long-lasting mediolateral perineal repair block and anal sphincter repair block
- 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

**SKILLS**

- 2nd degree perineal repair (both Medirolateral & Midline)
- Tissue layer recognition and handling
- Suturing in two planes
- Vaginal mucosal suturing
- Deep muscle suturing
- Subcuticular suturing
- Identification and management of perineal tears
- Enables digital rectal examination before and after repair

- 4th degree repair (Anal Sphincter)
- 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

- Un-incised
- Recognition of internal anatomy
- Performing infiltration (administering local anesthesia)
- Identification of degree tear using the pill rolling technique
- Deep musculature suturing
- Superficial suturing
- Repair of 1st-4th degree perineal tears
OPTIONAL EXTRA
Episiotomy Module

This cost effective model is designed to be used with the Perineal Repair Trainer in a classroom setting to ensure acquisition of confidence in the training of episiotomy. It offers repeatable training and contains the 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 familiarised with key landmarks and where to place the cut

WHAT’S INCLUDED

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</table>

- 2nd Degree Midline Perineal Repair Block (x2) ✓ × × × ×
- 2nd Degree Mediolateral Perineal Repair Block (x2) x ✓ x x x
- Anal Sphincter Repair Block (x2) x x ✓ x x
- Un-incised Perineal Repair Block (x2) x x x ✓ x
- Perineal Repair Stand with Clamps ✓ ✓ ✓ ✓ ✓ x
- Perineal Repair Block loading frame ✓ ✓ ✓ ✓ ✓ x
- Perineal Repair Illustration Pack ✓ ✓ ✓ ✓ ✓ x
- Episiotomy Incision Pad (x2) x x x x x
- Episiotomy Repair Tape (x24) x x x x x
- Episiotomy Baby Head x x x x x
- Episiotomy Illustration Pack x x x x x
- Water Based Lubricant ✓ ✓ ✓ ✓ ✓ x
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.

It is an ideal model for anesthetists, nurses and other pediatric emergency medical professionals practicing Directly Observed Practical Skills (DOPS), Pediatric Advanced Life Support (PALS) and critical emergency medicine including infant airway management, CPR, IV Cannulation and Lumbar Puncture.

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 thoracenthesis 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

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 artificial blood concentrate (250ml)
Syringes with tubing and quick fit connectors (x2)
AirSim Baby X

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

AirSim Child Combo X

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
Nickie® Medical Training Doll

Nickie® is used to practice medical device training for special medical needs children. Nurses and paramedics can use it to train school and hospital staff, as well as parents and home care providers.

SKILLS
- Tracheostomy management
- Tracheal tube suctioning
- Gastrostomy training
- Care of a gastrostomy button
- Urethral catheter insertion
- Stoma care
- Oral suctioning
- Peripherally Inserted Central Catheter (PICC) line care

REALISM
- Ileostomy stoma is in the lower right abdomen
- Open oral and nasal passages

KEY FEATURES
- Gastrostomy device and feeding tube is included
- A tracheostomy tube is inserted and secured with a standard tracheostomy tube holder
- A PICC is positioned in the forearm & secured with a ‘Stat-Lock’
- Injection port on the left thigh
- Fluid drain in the left heel

WHAT’S INCLUDED
- Nickie® training doll
- Shiley tracheostomy tube
- Mic-Key gastrostomy button
- PICC line
- Ambu Bag
- Tracheostomy suction catheter
- Gastrostomy feeding tube
- Syringe for gastrostomy button inflation/deflation
- Intermittent urethral catheter
- LMA Nasal Atomizer
- Diastat Training Syringe
- Descriptive booklet & carry case

Visit limbsandthings.com for more information about Optional Consumables
**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.

**KEY FEATURES**
- Realistic tissue resistance
- Iliac crests and spinous process are present and palpable
- 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**

**ANATOMY**

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

**REALISM**

- Realistic needle tip identification and artefact
- Realistic blood flashback upon entry into the vessel
- Real feel vascular "tenting" upon entry into the vessel
- A unique fully integrated fluid management system to replicate blood flow

**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

**VERSATILITY**

- Longitudinal and transverse anatomical viewing options
- High frequency linear array ultrasound probe can be used

**WHAT'S INCLUDED**

- Newborn care baby
- Simulation blood tube (red)
- Simulation blood tube (blue)
- Simulation blood
- Syringe
- Lubricant
- Plastic jar
- Instruction manual
Limbs & Things Laparoscopic Skills Trainer USB

50301

A cost-effective solution for acquiring the basic skills required for laparoscopic surgery. This trainer box comes with a USB camera, light source and pre-ported skin frame for trocars.

It provides an ideal laparoscopic environment for any basic task which can be added by the user.

SKILLS

• Basic psychomotor skills
• Use of laparoscopic instruments (not provided)
• Knot tying
• Precision cutting

QUALITIES

• Skin frame constructed from durable neoprene
• 2 pre-incised holes for the trocars
• USB camera included
• Trainer design allows for ambient light to enter training area
• Overhead LED lighting strip
• For use with laptop/PC
• Free downloadable camera software (Windows and Mac compatible)
• Soft Tissue Retaining Set (50151) can be used inside, with the Limbs & Things soft tissue pads
• Rubber strips provide a stable and non slip platform for training

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OPTIONAL EXTRAS

Visit fls-products.com for more information about a range of tasks
FUNDAMENTALS OF LAPAROSCOPIC SURGERY™ TRAINERS

Working closely with the SAGES-ACS FLS Committee, we have revolutionized the FLS Trainer System. Introducing an updated series of laparoscopic training products exclusively designed and endorsed for the FLS Program.

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

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

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

FLS Trainer Box with TV Camera

50302

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

Note that users must provide their own TV screen

FLS Trainer System

50304

The FLS Trainer System incorporates all of the features of the FLS Trainer Box but also includes a 19” Television Screen and a Mobile SimCart.

This product offers greater flexibility and is an extremely cost effective option for training centers.

FLS All-In-One Trainer System

50306

The FLS All-In-One Trainer System incorporates all of the features of the FLS Trainer System and also includes ligating loops, sutures and an FLS Approved Instrument Kit.

This product provides a training center with everything required to run an FLS Training program.
## WHAT'S INCLUDED

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## OPTIONAL

### FLS TASK 1 PEG TRANSFER

- **50331** Peg Board & 6 Triangles
- **50360** Triangles for Peg Board (x6)

### FLS TASK 2 PRECISION CUTTING

- **50332** Jumbo Clip Retainer
- **50361** Gauze Pads with Single Circle (x100)*
- **50362** Gauze Pads with Double Circle (x100)*

### FLS TASK 3 LIGATING LOOP

- **50363** Foam Organs (x15)
- **50364** Single-Use Ligating Loop (x3)*
- **50365** Multi-Use Ligating Loop (x5)*

### FLS TASK 4 & 5 KNOT TYING

- **50333** Suture Block
- **50366** Penrose Drains (x100)
- **50367** Suture 2/0 Silk 90cm, 26mm Needle (x50)
- **50368** Suture 2/0 Silk 90cm, 26mm Needle (x25)

### INSTRUMENTS - FLS APPROVED

- **50380** FLS Approved Instrument Kit (8 Pieces)*
- **50381** Pair of Maryland Dissectors*
- **50382** Graspers (Locking)*
- **50383** Endosscissors*
- **50384** Right Needle Driver*
- **50385** Left Needle Driver*
- **50386** 2 Knot Pushers (1 Open Ended; 1 Closed Ended)*

* Not for animate use, not sterile, for training purposes only
Nasopharyngeal Swab Collection Simulator

**KWMW45**

Developed in response to training needs for COVID-19 identification and the collection of other respiratory specimens such as influenza, this model allows for the training of both nasal and pharyngeal swab collection.

The angled adult head and shoulders allow for pharyngeal swab training, where trainees can accurately learn the skill of tongue depression as the swab is taken.

For nasal swabs, the accuracy of key skill acquisition can be identified as the swab will appear pigmented when it is in the right position in the nasal cavity (with differing profiles in the left and right nostril). To aid the learner’s understanding of the procedure, a cross sectional anatomical model is included.

**SKILLS**

- Collection of diagnostic respiratory specimens
- Skills of tongue depression whilst pharyngeal swabbing

**ANATOMY**

- Anatomically accurate representation of adult head
- A tethered tongue allows for the student to manage the skill of tongue depression whilst taking a swab

**QUALITIES**

**REALISM**

- Differing left and right nostrils allow for training in anatomical nasal passages

**KEY FEATURES**

- Easy to use model which gives learners and teachers confidence in skill acquisition
- Positive recognition of the accuracy of nasal swabs
- Avoiding teaching false negatives

**VERSATILITY**

- Affordable accurate training can take place to gain confidence and increase accuracy of swab collection

**SAFETY**

- Latex free

**WHAT’S INCLUDED**

- Head and Shoulders
- Cross Sectional Model
- Syringe (30ml)
- Disposable Cup
- Swabs for Coloring
- Instruction Manual

**NEW**
Ostomy Training Pouch

The Ostomy Training Pouch facilitates the practice and familiarization of pouching techniques for health care staff and patients and their families. The trainer allows for training in a number of scenarios with the aim of maintaining healthy skin, developing improved hand-eye coordination and lessening pre-operative anxiety.

SKILLS
- Maintaining health skin
- Developing good hand-eye coordination when using a stoma bag
- Ability to use 4 different stoma bags in 4 different locations
- Becoming familiarized with stoma bags, the complications that come with them and general care

QUALITIES

ANATOMY
- Contact dermatitis
- Standard healthy skin
- Flush placement with folds and mucocutaneous separation
- Candidiasis

REALISM
- Realistic, life-sized model
- Each stoma can have simulate urine or still discharge to further enhance the realism

VERSATILITY
- Completely reversible and rotatable
- Velcro waist straps allow trainer to be used with a simulated patient for added realism

SAFETY
- Do not use ointments or dressings that contain silver, as they may stain the model

Dehisced Wound Board

The Dehisced Wound Board allows for cleansing, measurement and dressing changes to dehisced wounds. The easily portable trainer is an ideal tool for competency testing in a healthcare simulation setting.

SKILLS
- Facilitates routine cleansing and dressing changes
- Patient ointments, standard dressings and vacuum assisted or negative pressure wound therapy devices can be demonstrated and practiced

QUALITIES

REALISM
- Life-like feel and flexible material

VERSATILITY
- Anatomically accurate model for teaching the identification, care and dressing of dehisced wounds
- Hand painted trainer, which features a stapled wound with both undermining and tunnelling evident
- Negative pressure dressing can be applied
- No adhesive residue
- Easily portable

SAFETY
- Do not use ointments or dressings that contain silver, as they may stain the model
Freddie Fistula™ Skills Trainer

VTA0230

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)

QUALITIES

ANATOMY

- Soft abdomen with open wound and exposed intestines
- 3 fistulas
  - 1 central stomatized fistula (easily observable)
  - 1 non-stomatized fistula
  - 1 hidden fistula (not readily observable)
- Skin fold creases

KEY FEATURES

- Any combination of the 3 fistulas can be opened to allow effluent flow
- Integral base is designed with tray to hold up to 700ml of fluid
- Proprietary skin allows standard dressings to be applied
- Support rod holds 500ml effluent fluid bag

CLEANING & CARE

- Skin is washable using soap and water

WHAT’S INCLUDED

Freddie Fistula™ Wound Care Skills Trainer
1 Quart Bottle of Effluent Concentrate
3-Way Tube Set With Color-coded Pinch Clamps
Support Rod
500ml Effluent Fluid Bag
Carry case

‘Pat’ Pressure Injury Staging Model™

VTA0980

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

QUALITIES

ANATOMY

- For Dark skin:
  - Suspected DTI
  - Blood blister
  - Stage I pressure injury
- For Light skin:
  - Suspected DTI
  - Stage I pressure injury
  - Stage II blister intact
  - Stage II pressure injury
  - Stage III pressure injury with undermining, tunnelling, granulation tissue, subcutaneous fat, eschar and slough
  - Stage IV pressure injuries both large and small

KEY FEATURES

- DTIs have “mushy/boggy” feel when palpated
- Routine cleansing and dressing changes can be taught and practiced on all wounds
- Staging of ulcers matches US National Pressure Ulcer Advisory Panel guidelines

CLEANING & CARE

- Skin is washable using soap and water

WHAT’S INCLUDED

Pat Pressure Injury Staging Model
Legend
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

**QUALITIES**

**ANATOMY**
- Displays the following conditions:
  - Stage I pressure injury
  - Stage II blister intact
  - Stage III pressure injury with undermining, tunnelling, subcutaneous fat, eschar and slough
  - Stage IV deep injury with exposed bone, undermining, tunnelling, subcutaneous fat, eschar and slough
  - Suspected DTI, unstageable
  - 5 1/2” dehisced wound

**REALISM**
- Unique flexible lifelike material permits the placement of dressings (without adhesive residue)
- Can be used with negative pressure wound therapy devices

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

**WHAT’S INCLUDED**
- Seymour II Wound Care Model

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

**QUALITIES**

**ANATOMY**
- Pressure injury
  - Stage I on the medial malleolus
  - Stage II on the lateral foot (behind the 5th toe)
  - Stage III on the heel with infection
  - 2 x Stage IV: on the lateral malleolus with exposed tendon and bone & on the medial foot (behind the big toe) with exposed tendon and slough
- Suspected DTI
- Neuropathic ulcer
- Callus, gangrene, maceration
- Amputation, corn, fungal thickened toenails
- Blisters, hammer toes, skin stapled wound
- Ingrown toenail, unstageable eschar on lateral foot
- Partial thickness wounds between toes

**REALISM**
- Unique flexible lifelike material permits the placement of dressings (without adhesive residue)
- Can be used with negative pressure wound therapy devices

**KEY FEATURES**
- DTI on top of foot with “mushy/boggy” feel when palpated
- Flexible material allows toes to be moved

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

**WHAT’S INCLUDED**
- Wilma Wound Foot

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
UNDERGRADUATE MEDICINE

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.
These products cover the broad set of skills required from Physician Assistants including: physical exams, diagnosing illnesses, care coordination as well as a variety of procedures.
# GYNECOLOGY

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