What a great 30 plus years!

The medical simulation market, which in 1990 was in an embryonic state, is now a bustling adolescent with a very loud voice.

Our fast moving and talented team is continually focused on maintaining first place in the design, manufacture and sale of part-task trainers.

We have enabled safer training for healthcare professionals, and a more comfortable journey for the patient. A big contribution.

A huge thank you to all our dedicated people who have worked and continue to work at Limbs & Things, ensuring that we serve the changing requirements of medical training and reach all corners of the world.
OUR MISSION

IMPROVE PATIENT OUTCOMES THROUGH REALISTIC LEARNING EXPERIENCE
Medical Illustrator, Margot Cooper launches Limbs & Things

Based in Bristol, United Kingdom.
Her aim: to produce dynamic & innovative, anatomically accurate medical training models.

Spreading the word
It’s time for expansion, collaborations, exploring new territories.
A truly International business

With offices in the USA, Australia & Europe, we’ve brought international experience & knowledge into our business. A global network of distributors supply our products to over 80 countries.
What’s NEW?

- CATHETERISATION TRAINERS
- PATIENT CARE SIMULATOR “YAYE”
- EPIDURAL & LUMBAR PUNCTURE RANGE
- PROMPT FLEX - DARK SKIN
- PROMPT FLEX - CERVICAL CERCLAGE MODULE
- PERINEAL REPAIR & EPISIOTOMY
- TRUBABY X
- SHOULDER INJECTION TRAINER - ULTRASOUND GUIDED
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PHYSICAL EXAMINATION SKILLS
Clinical Female Pelvic Trainer (CFPT) Mk 3 - Standard & Advanced

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


**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
### WHAT'S INCLUDED

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**Patents granted:** • US6336812 • EP099027 • DE69804793 • CA 2293585 • ZL98806331 • HK1023832 • 755575 Australia
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.

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

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
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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<tr>
<th>40204</th>
<th>Pathologies</th>
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| ✔      | Wearable Examination Breasts | ✔     | ✔     
|        | Pathologies   | ✔     | ✔     |
| 40205  | Breast Examination Inserts  | ✔     | ✔     |
| 40206  | Breast Pathologies Supports | ✔     | ✔     |
| 40207  | Breast Back Plates  | ✔     | ✔     |
| 40208  | Breast Examination Torso  | ✔     | ✔     |
| 40203  | Lymph Node Pads and Lymph Nodes  | ✔     | ✔     |

OPTIONAL EXTRAS

40209 Medium Carry Case

---

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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 faecal 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 faecal matter in the rectum
- Identification of external ano-rectal conditions*
- Professional-to-patient communication
- Insertion of rectal medication (micro enemas, suppositories)

**ANATOMY**

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

**REALISM**

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

**KEY FEATURES**

- Simulation of sphincter contraction allows trainees to assess anal tone
- Interchangeable prostates can be quickly and easily inserted, out of sight of the trainee*
- Left lateral positioning
- Addition of impacted faecal matter allows trainees to recognise 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

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<tr>
<td>40209</td>
<td>Medium Carry Case</td>
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Clinical Male Pelvic Trainer (CMPT) Mk 2 - Standard & Advanced

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

QUALITIES

ANATOMY
- Abdomen, pelvis and genitalia
Anatomy of the groin with clear anatomical landmarks:
  - Anterior Superior Iliac Spine (ASIS)
  - Pubic symphysis and tubercles
Genitalia includes:
  - Penis (both circumcised and non-circumcised)
  - Scrotum (containing testicles with epididymis and vas deferens)
Pathologies (Advanced model only):
  - Varicocele
  - Testicular tumour 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

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.

Validated in the *Journal of Surgical Education*

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

WHAT’S INCLUDED

| 60952 | CMPT Module 1: Normal | ✓ | ✓ |
| 60953 | CMPT Module 2: Varicocele | × | ✓ |
| 60954 | CMPT Module 3: Tumours | × | ✓ |
| 60955 | CMPT Module 4: Epididymal Cysts | × | ✓ |
| 60956 | CMPT Module 5: Hydrocele | × | ✓ |
| 60957 | CMPT Module 6: Orchitis/Epididymo-orchitis | × | ✓ |
| 60958 | CMPT Module 7: Indirect Inguinal Hernia | × | ✓ |
| 60959 | CMPT Abdominal Insert | ✓ | ✓ |
| 60960 | CMPT Pubic Bone | ✓ | ✓ (x2) |
| 60961 | CMPT Foreskins Pack (each pack contains 2 foreskins & 3 lubricant sachets) | ✓ | ✓ (x2) |
  - Lower torso | ✓ | ✓ |
  - Support base | ✓ | ✓ |
| 60963 | LED pen torch | × | ✓ |
  - Carry case | ✓ | ✓ (x2) |

Patents granted: • US6336812 • EP099027 • DE69804793 • CA 2293585 • ZL8880631 • HK1023832 • 755575 Australia
Abdominal Examination Trainer

60000

An anatomically accurate adult male torso, used to teach and practise 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 recognise and differentiate a range of abnormal organs and pathologies.

Ideal for OSCE preparation and assessment.

SKILLS

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

60005 Abdominal Examination Base Unit
60006 Abdominal Examination Skin
60007 Abdominal Examination Rectus Bag
60008 Abdominal Examination Organ Locator
60009 Abdominal Wall
60010 Abdominal Examination Livers (Set of 3)
60011 Abdominal Examination Spleens (Set of 2)
60012 Abdominal Examination Kidneys (x2)
60013 Abdominal Examination Bladder
60014 Abdominal Examination Pathologies (Set of 6)
60015 Abdominal Examination Aortas (Set of 2)
60016 Abdominal Examination - Distension Set
60053 International 5V DC Power Supply
  - AA Batteries (x4)
  - Carry case (x2)

Visit limbsandthings.com
A realistic trainer for teaching and practising 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, haemorrhages and cotton wool spots, simple vein concealment
  - Simple/background diabetic retinopathy: microaneurysm, haemorrhages and hard exudates
  - Papilloedema (chronic phase)
  - Papilloedema (acute phase)
  - Glaucomatous optic atrophy: glaucomatous optic disc cupping and nerve fibre defect
  - Retinal vein occlusion (acute phase): flameshaped haemorrhage and cotton wool spots
  - Retinal vein occlusion (after retinal laser photocoagulation)
  - Toxoplasmosis: retinochoroiditis
  - Age-related macular degeneration: macular exudates and subretinal haemorrhage

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

**WHAT’S INCLUDED**

- Manikin head & shoulders
- Slide holder
- Carry case
**Ear Examination Simulator II**

**KKMW12**

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.

**Qualities**

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

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

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

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

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

**What’s Included**
- Manikin head & shoulders
- 4 Pairs of ear units:
  - Examination ear (normal)
  - Foreign body ear (normal)
- Foreign body removal kit
- Carry case
SAM 3G - Student Auscultation Manikin

SAM 3G is an adult auscultation manikin, ideal for teaching users to identify an extensive range of lifelike heart, breath, bowel and bruit sounds.

SAM 3G Enhanced includes additional software features.

SKILLS
- Use and placement of a stethoscope (not supplied)
- Identification of sounds and their variations
- Relationship between sounds and auscultation sites
- Ability to describe sounds clearly to others
- Palpation of anterior and posterior thrills

QUALITIES

REALISM
- Angle of Louis is present for landmarking
- Anatomically correct auscultation sites

KEY FEATURES
- Total of 97 sounds: 36 heart, 27 breath, 16 bowel, 10 heart and breath combination sounds
- Variable heart and respiration rates (heart sounds are played at 60, 75, 90 and 110 bpm and breath sounds from 12-30 bpm)
- Carotid pulse timed with the first heart sound to identify the onset of systole
- Software includes ECG waveforms and visual phonocardiograms that can be projected for group teaching
- Includes laptop running Windows 10 and free SAM Online site licence giving access to sound library, lessons with illustrations, diagrams, etc

VERSATILITY
- Can be used in the upright, supine or left lateral position
- Suitable for lab, classroom, or online
- Portable and easy to use

WHAT’S INCLUDED

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OPTIONAL EXTRAS
- SAM 3G Warranty - 3 year extension
- Carry case

SimScope WiFi The Hybrid Simulator

CD718-3410

An auscultation solution for real-time, seamless standardised patient interaction and assessment.

Users can simulate a wide range of heart, bowel, lung and bruit sounds using wireless communication between the SimScope stethoscope, software and patches applied to the simulated patient.

QUALITIES
- Ideal for use with simulated patient and OSCE programs
- Easy to use
- Portable
- Quick change AAA battery provides up to 12 months of battery life
- Compatible with Enterprise Network (more secure network)

Visit limbsandthings.com for further information
PROCEDURAL SKILLS
Standard Venepuncture Arm

The Standard Venepuncture Arm provides the ideal platform for practising the skills related to venepuncture and IV cannulation. Comes with a bag and stand.

Bag & Stand Advanced Venepuncture Arm

The Bag & Stand Advanced Venepuncture Arm contains a more complex vein structure in combination with the bag, stand and mock blood supply.

Advanced Venepuncture Arm

The Advanced Venepuncture Arm features a complex vein system, which is connected to a closed blood supply, for easy adjustment of pressure.

The bag & stand mock blood supply is perfect for a clinical skills training environment where large numbers of trainees are practising on a regular basis, or for self-directed learning time in a skills laboratory.
SKILLS

- Venepuncture
- IV Cannulation
- IV Infusion
- Professional-to-patient communication

QUALITIES

ANATOMY

- Soft, flexible skin
- Underlying palpable veins:
  - All models: cephalic, basilic and dorsal metacarpal
  - Advanced model only: median cubital

KEY FEATURES

- Realistic blood flashback
- Arm allows for digital pressure to stem blood flow
- Infusion tube allows for volume IV fluids to be administered

VERSATILITY

- Skin is durable
- Veins last for up to 500 insertions of 21g needle
- Blood has been reformulated to improve leak resistance of veins (concentrated liquid to save you money and space)
- Can be used with vacuum blood collection systems, needle and syringe and IV cannulas
- Can be used for hybrid simulation and for professional-to-patient communication when using the optional Venepuncture Arm Harness

SAFETY

- Veins contain latex

CLEANING & CARE

- Veins are easy to replace
- Easy to clean, service and maintain

WHAT’S INCLUDED

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ACF Pad - Venepuncture

This soft tissue pad is supplied on a base for bench top training in venepuncture 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 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

- 00180 Vein for ACF Pad
- 00170 Epidermis for ACF Pad
- Pad base with strap

Extended ACF Pad - Venepuncture

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

Three Vein Pad - Venepuncture

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

SKILLS

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

WHAT’S INCLUDED

- 00140 Vein for Three Vein Pad
- 00161 Epidermis for Three Vein Pad
- Pad base with strap

- 00213 Vein for ACF Pad
- 00170 Epidermis for ACF Pad
- Pad base with strap
A multi-layered pad containing filled veins for practising 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**
- 00280 Cutdown Pad

---

Mock Blood Giving Set

**06651**

A 1500ml blood bag with luer lock connector tube and stand.

This product can be used with Limbs & Things’ products requiring a mock blood supply.

**QUALITIES**

**KEY FEATURES**
- Quick and easy to assemble
- Easy storage - collapsible stand
- Bag holds up to 1500ml
- Fluid flow shut-off clamp

**VERSATILITY**
- This product can be used with Limbs & Things products requiring a mock blood supply including:
  - Cutdown Pad (00280)
  - ACF Pad (00140) and Extended ACF Pad (00211)
  - Three Vein Pad (00161)
  - Vermiform Appendix (50122, 50123 and 50124)
  - Gall Bladders (50127, 50128, 50129 and 50132)

**WHAT’S INCLUDED**
- 60652 Mock Blood/Fluid Bag
  - Luer lock tube adapter
  - Metal stand with base

---

Mock Blood - Venous

**00223**

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

Mock Blood - Arterial

**00653**

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

This trainer facilitates practice of radial artery puncture for blood collection and artery catheterisation.

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

KK11351-010 Skin Sets (Inner & Outer)
KK11351-030 Silicon Belt
KK11351-040 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 practising 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

00310 Skin Pad & Muscle Block
00320 Epidermis for Injection Trainer (x2)
- Strap-on base plate
- Soft tissue tray with liner
Ultrasound Vascular Access Trainer

60530

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

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

QUALITIES
REALISM
- Echolucent material provides realistic ultrasound image

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

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

SAFETY
- Veins contain latex

WHAT’S INCLUDED
- 60531 Ultrasound Vascular Access Slab
- 60532 Ultrasound Vascular Access Vein
- Base
- 10ml syringe

Ultrasound CVC Insertion Simulator Mk 3

KKM93C

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

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

QUALITIES
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
- Male upper torso manikin
- KKI1347-240 CVC pads (x2)
- Transparent anatomical block
- Skin for cannulation training
- Mock blood powder sachets
- Air bulb
- Plastic jars (x2)
- Irrigation bottle
- Syringe
- Sample needle
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**

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<td>VTA0407</td>
<td>9FR TUNNELED CENTRAL CATHETER</td>
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<td>VTA0405</td>
<td>Chest Tissue Flap</td>
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<tr>
<td>VTA0420/0430/0440</td>
<td>3 Difficult Access Inserts</td>
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</table>
  - Torso with detachable standard arm
  - Blood reservoir bag in the torso & arm
  - Base

Peter PICC Line™

Designed for practising 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 visualisation of veins

**SAFETY**
- Veins contain latex

**WHAT’S INCLUDED**

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<td>VTA0611</td>
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  - 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 visualisation of the needle tip

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

**CLEANING & CARE**
- Replaceable puncture pads

**WHAT'S INCLUDED**

**KK11398-010** 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 Catheterisation Range facilitates the teaching of urethral and suprapubic catheterisation across all levels of training. Interchangeable modules allow practice of the fundamental procedures of male and female urethral catheterisation, as well as more advanced skills of suprapubic management and ultrasound guided insertion.

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

**Male Catheterisation Trainer**

**60850**

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

Replaceable and removable foreskin.

**Female Catheterisation Trainer**

**60851**

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**

**60852**

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

Fits into **60850 & 60851**.
SKILLS
• Correct handling of male and female anatomy
• Aseptic catheterisation technique
• Withdrawal of catheter
• Urinary catheterisation
• 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 catheterisation modules
• Removable foreskin

SAFETY
• Trainer is latex free (catheters provided contain latex)

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OPTIONAL EXTRAS

40209 Medium Carry Case
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.

**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
PAD FEATURE COMPARISON

ADVANCED  STANDARD

- Ultrasoundable ✓ x
- Use with liquids ✓ x
- Effusion ✓ x
- Haemorrhage simulation ✓ x
- Pleural layer ✓ ✓
- Blunt dissection ✓ x
- Seldinger technique ✓ ✓
- Can be sutured ✓ ✓
- Needle insertion ✓ ✓
- Guidewire insertion ✓ ✓
- Dilator insertion ✓ ✓
- Drain tube insertion ✓ ✓
- Use with adhesive dressings ✓ ✓
- Shows respiratory swing ✓ x
- Latex free ✓ ✓

WHAT'S INCLUDED

60231 Needle Decompression Pads (x2)
60232 Advanced Chest Drain Pads (x2)
60234 Standard Chest Drain Pads (x2)
60235 Chest Drain Rib Frame (Left)
60237 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
Ultrasound Guided Pericardiocentesis Simulator

This simulator allows trainees to practise 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
- Visualisation 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
K11394-010 Puncture Pad for Guided Pericardiocentesis Simulator (x2)

Tube Feeding Simulator

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


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

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

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

VERSATILITY
- Compact and portable

WHAT’S INCLUDED
- Male torso & support base
- Drain tube
- Funnel
- Plastic cup
- Tube feeding routes panel
- Chest sheet
- Instruction manual
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 catheterisation
- Enema
- Suppository insertion
- Perineal care
- Wound dehiscence care
- Wrapping of dressings
- Subcutaneous injection

**QUALITIES**
**ANATOMY**
- Male and female genitalia

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

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

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

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

**WHAT'S INCLUDED**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>KKI1401-030</td>
<td>Female Genitalia</td>
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<tr>
<td>KKI1401-040</td>
<td>Male Genitalia</td>
</tr>
<tr>
<td>KKI1401-070</td>
<td>Wound Care Pad</td>
</tr>
</tbody>
</table>

- Cherry Patient Care manikin
- Femoral IM injection pad
- Upper arm IM injection pad
- Bottle
- Syringe

Visit [limbsandthings.com](http://limbsandthings.com) for more information about Optional Consumables
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 catheterisation
- 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 catheterisation
- Female genitalia (suppository insertion/digital disimpaction)
- Set of simulated feces
- Lubricant (for airway suction etc)
- Lubricant (for catheterisation etc)
- Irrigation bag
- Drainage pump (urinary bladder)
- Drainage pump (rectum)
- Drainage hose
- Set of pajamas
- Instruction manual

Check [limbsandthings.com](http://limbsandthings.com) for more information about Optional Consumables
Paracentesis Trainer

60100

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 practised.

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 litre chambers can be filled with water for practise 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

60101 Paracentesis Skin
60102 Paracentesis Pads (x2)
60103 Paracentesis Liver
60104 Paracentesis Spleen
60105 Paracentesis Bowel Insert
60106 Paracentesis Floating Bowel
60107 Paracentesis Clamping Frame
60108 Paracentesis Large Volume Refill System
  - Base unit
  - Carry case
AirSim Advance X

**TCAA91100X**

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

<table>
<thead>
<tr>
<th>ADVANCE X</th>
<th>COMBO X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double naso-tracheal intubation</td>
<td>✓</td>
</tr>
<tr>
<td>Bag and mask ventilation techniques</td>
<td>✓</td>
</tr>
<tr>
<td>Full range of supraglottic devices</td>
<td>✓</td>
</tr>
<tr>
<td>Direct laryngoscopy</td>
<td>✓</td>
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<tr>
<td>Endotracheal tube insertion</td>
<td>✓</td>
</tr>
<tr>
<td>Awake fibre optic examination</td>
<td>✓</td>
</tr>
<tr>
<td>Combi tube insertion</td>
<td>✓</td>
</tr>
<tr>
<td>Video laryngoscopy (incl. Sellick Manoeuvre)</td>
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</tr>
<tr>
<td>Naso gastric tube insertion techniques</td>
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</tr>
<tr>
<td>Needle and surgical cricothyroidotomy</td>
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</tr>
<tr>
<td>Percutaneous tracheostomy</td>
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### WHAT’S INCLUDED

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<thead>
<tr>
<th>ADVANCE X</th>
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<tbody>
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<tr>
<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>
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<tr>
<td>USB user manual</td>
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<tr>
<td>Carry case</td>
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</tbody>
</table>

**TruCric**

The TruCric is ideal for practising 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.

**TCCTCRIC1**
Airway Suction Trainer

KKM85

Realistic representation of the respiratory organs for teaching catheterisation and temporary airway suction.

QUALITIES

REALISM
• Realistic anatomy, including mouth, tongue, oral and nasal pharynx, larynx, epiglottis, vocal cords, trachea and oesophagus

KEY FEATURES
• Incorporates an observation window showing the passage of the catheter to be demonstrated, explained and assessed
• Life-size organs facilitate learning proper catheter insertion length

VERSATILITY
• Sticky simulated sputum material can be introduced into the bronchus

CLEANING & CARE
• Washable and can be dismantled easily for cleansing

SKILLS
• Insertion of catheters orally, nasally or through the tracheostomy opening
• Temporary airway suction
• Tracheostomy care, replacement and management

WHAT'S INCLUDED
• Head & neck model with airway anatomy
• Bottle of lubricant
• 2 Catheters
• Bottle of simulated sputum
• Metal tray
• Syringe
• Storage case
LUMBAR PUNCTURE & EPIDURAL RANGE

This range offers realistic, repeatable and cost effective training in the core skills of Lumbar Puncture and Epidural Anaesthesia 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 61000

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 61001

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 61002

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.
DIAGNOSTIC PROCEDURES

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 Only

SKILLS

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<tr>
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<td>Lumbar puncture</td>
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<tr>
<td>Collect and measure CSF</td>
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<tr>
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<tr>
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<td>Obese option</td>
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<td>61010 Lumbar Puncture Insert - Bone</td>
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<td>61016 Epidural &amp; Lumbar Puncture Fat Pad (x3)</td>
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<td>61017 Epidural &amp; Lumbar Puncture Standard Dura (x2)</td>
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<td>61018 Epidural &amp; Lumbar Puncture Advanced Dura (x4)</td>
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<tr>
<td>61019 Epidural &amp; Lumbar Puncture Iliac Crest Insert</td>
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<td>61020 Epidural &amp; Lumbar Puncture Insert Cartridge</td>
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<td>61021 Epidural &amp; Lumbar Puncture Sacral Insert</td>
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<td>61022 Water Reservoir</td>
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</table>
SONON Ultrasound Imaging System

An ideal aid for teaching ultrasound guided procedures in clinical learning environments. Developed for emergency medicine, SONON is an affordable and high quality mobile ultrasound system.

The **Convex** probe is suitable for Obstetrics and Gynaecology and General Abdomen applications.

The **Linear** probe is suitable for Muscular-Skeletal, Vascular, Breast, Thyroid and Lung applications.

**SKILLS**

- Competence using ultrasound technology to perform systematic scanning techniques
- Handling of transducers
- Insertion of needles under ultrasound guidance
- Ultrasound image interpretation

**QUALITIES**

**KEY FEATURES**

- Cost-effective training solution
- Premium IQ for its class of system
- Portable with integral wifi

**VERSATILITY**

- Intuitive and quick set up
- Simple to connect to a smartphone or tablet

**WHAT’S INCLUDED**

- SONON 300C or SONON 300L
- Battery pack
- Battery charger
- Charger adaptor
- Main adaptor
- User manual book
- Quick guide
SPECIALIST SKILLS
SUTURE TUTOR PLUS™
All you need to learn basic instrument handling, knot tying, suturing and more.

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

Online, Video-based Course

STP-PRO-SUB

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

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

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 anaesthesia
- Other methods of wound closure

CHOOSE YOUR PRODUCT

STP-PRO-SUB

- 11 Online Module
- Suture Tutor Plus Hands-on Kit

Hands-on Kit

STP-KIT

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

WHAT’S INCLUDED

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

STP-PRO-COM STP-PRO-SUB 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
- Haemostasis: clip tie, continuity tie, pedicle transfixion
- Tissue handling - bowel: end-to-end interrupted sutures
- Fine tissue handling: tendon repair

**WHAT’S INCLUDED**

- 50061 Double Layer Bowel 30mm
- 50074 BSS Lesion & Cyst
- 50051 BSS Surgical Skills Board
- 50056 BSS Tendon Repair Trainer
  - BSS knot tying trainer
  - Skin pad jig with skin pad
  - BSS soft tissue retaining set
  - Haemostasis 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**

- 50075 BSS Abscess
- 50047 BSS Traumatic Wound with Simulated Foreign Bodies
- 50060 BSS AOCT Pad
- 50055 BSS AOCT Frame
  - Drain
  - 8mm x 140mm artery
  - 8mm x 76mm 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
BSS Lesion & Cyst

For the practice of skin lesion removal, local anaesthesia 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

BSS Abscess

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). Contains latex.

SKILLS
- Abscess drainage
- Necrotic wound debridement

BSS Traumatic Wound

This product was developed in conjunction with the Royal College of Surgeons. It is also available as part of the BSS Day 2 Kit (50071).

SKILLS
- Wound management
- Foreign body removal
- Traumatic wound debridement

BSS Surgical Skills Board

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

QUALITIES

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

SAFETY
- Latex free

CLEANING & CARE
- Wipe-clean surface

WHAT'S INCLUDED

50054 BSS Soft Tissue Retaining Set
- Retaining clips with sucker feet (x2)
- Retaining clips with attachment loops (x4)

00550 Skin pad jig
- Base
This jig supports the entire range of Limbs & Things synthetic soft tissue pads.
Can be strapped onto the limbs or body of a Simulated Patient when used with the optional strap (00510).

QUALITIES

REALISM
• Presents pads on a curved lifelike profile allowing incisions to gape, akin to real life
• Flexible plastic allows for realistic ‘give’ of skin pad when pressure is applied

KEY FEATURES
• Sucker feet work effectively on smooth work surfaces
• Stable and non-slip

VERSATILITY
• Optional jig strap allows use with Simulated Patient
• Use with:
  - Professional Skin Pad Mk 2
  - Wound Closure Pad
  - Lipoma Pad
  - Sebaceous Cyst Pad, Curettage, Snip & Shave Excision Pad
  - Minor Skin Procedures Pads

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

Skin Pad Jig Strap (x3)

00510

This low cost addition for the Skin Pad Jig Mk 3 (00550) allows the jig to be strapped onto the limbs of a Simulated Patient.

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

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

SAFETY
• Latex free

Wound Closure Pad

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

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

SKILLS

• Designing the incision
• Marking out the lipoma
• Incising the skin
• Blunt dissection
• Removal
• Closure

QUALITIES

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

KEY FEATURES
• Pad dimensions: 125mm x 72mm

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

SAFETY
• Latex free
Sebaceous Cyst Pad

For practising 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

• Marking out the cyst
• Planning and marking the ellipse
• Incising the skin
• Sharp dissection

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

Curettage, Snip & Shave Excision Pad

Combines a number of skin lesions (tags, naevi, seborrhoeic keratos) 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 naevi during shave excision
• Allows seborrhoeic keratoses to be removed using curettage technique

KEY FEATURES

• Cost effective: large pad with 4 skin tags, 4 naevi and 4 seborrhoeic 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
Minor Skin Procedures Pads

Set of 4 pads covering all aspects of suturing and minor skin procedures, for use with the Skin Pad Jig Mk 3 (00550).

Pad dimensions: L 125mm x W 72mm
Product is latex free.

WHAT’S INCLUDED

- 00091 Professional Skin Pad (small)
- 00081 Lipoma Pad
- 00071 Sebaceous Cyst Pad
- 00104 Curettage, Snip & Shave Excision Pad (small)

Ingrowing Toenail Trainer

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

SKILLS

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

WHAT’S INCLUDED

- 80071 Toe Jig
- 80070 Toe Ends (x3)

Two Person Minor Surgery Pack

Developed in conjunction with the Royal College of General Practitioners, and containing a selection of the core pad offerings, this pack provides the ideal platform for learning minor surgery skills in pairs.

WHAT’S INCLUDED

- 00091 Professional Skin Pads (small) (x2)
- 00081 Lipoma Pads (x2)
- 00071 Sebaceous Cyst Pads (x2)
- 00104 Curettage, Snip & Shave Excision Pad (small) (x2)
- 80070 Toe End
The PROMPT Flex Range is an integral part of many training courses around the world, suitable for all levels of training and skill maintenance.

Now also available in a dark skin tone, this range offers the flexibility to train on routine and a number of difficult birthing management scenarios.

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
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<td>80280</td>
<td>PROMPT Flex - Cervical Cerclage Module - Dark</td>
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</tbody>
</table>
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.

See P. 62
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

You may also be interested in:

80108 PROMPT Flex Advanced - with Tablet
80208 PROMPT Flex Advanced - with Tablet - Dark

QUALITIES

ANATOMY
• Birth canal and cervix
• Ischial spines and pubic bone
• Gynaecoid 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 McRobert’s 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

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</table>
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 manoeuvres.

QUALITIES

REALISM
• Fully articulated baby with umbilical cord
• Full term infant size

KEY FEATURES
• Improved and more realistic limb articulation
• Correct anatomical landmarks for delivery
• Versatile use for wide range of delivery types
• Flexion allows for life-like manoeuvring

VERSATILITY
• Can be quickly and easily used in conjunction with the Birthing Mother and C-Section module

SAFETY
• Latex free

Note that articulation improvements only affect the PROMPT Flex Standard Baby.
PROMPT Flex - Cervical Dilation & Effacement Module

80102 80202

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

QUALITIES

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

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

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

SAFETY
- Latex free

SKILLS

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

WHAT’S INCLUDED

80138 Perineum
80139 Pelvic Ring
80140 Static Rig
80141 Dynamic Rig
80142 Set of 7 Latent Labour Cervixes
80143 Dynamic Cervix
80144 Set of 5 Presenting Parts
80145 Set of 2 Difficult Labour Heads
80146 Amniotic Membrane Set
80162 Set of 3 Caputs (x2)
PROMPT Flex - Caesarean Section Module

Ideal for practising the necessary skills required when performing a caesarean 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 manoeuvres.

**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 caesarean section at full dilation

**SAFETY**
- Latex free

**SKILLS**
- Abdominal and uterine wall opening and closure
- Cephalic and breech delivery
- C-section at full dilation:
  - Head disimpaction using vaginal push methods
  - Use of balloon disimpacting device
  - Reverse breech extraction
- Transverse lie
- Instrument assisted C-section delivery
- Delivery of the placenta
- Teamwork and human factors training in emergency C-section

**WHAT’S INCLUDED**

- **80103** Caesarean Section Surgical Pad (x2)
- **80138** Perineum
- **80170** Uterus for Caesarean Section Module
- **80171** Pre-incised Delivery Only Skin
- **80172** Surgical Skin
- **80173** Cervix for Caesarean Section Module
- **80175** Foam Uterus Support
- **80176** Full Dilatation Pelvic Insert
PROMPT Flex - PPH Module

Allowing training in the management of postpartum bleeding, it offers a realistic simulation of an atonic and contracting uterus. This module is an optional add-on for PROMPT Flex Standard or Advanced.

SKILLS

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

WHAT’S INCLUDED

- 80127 PROMPT Flex PPH Uterus Assembly
- 00020 Concentrated Venous Blood - Starter Pack (x2)
  - PROMPT Flex PPH blood container

QUALITIES

REALISM
- Atonic uterus can simulate contraction on fundal massage

KEY FEATURES
- Blood loss of up to 2 litres 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

ANATOMY
- A representation of post-partum uterus including uterine arteries and broad ligament

KEY FEATURES
- Uterine arteries can be fluid filled
- Ligation of arteries is possible
- Multiple uses when conducting the compression suture

VERSATILITY
- Can be quickly and easily fitted into the birthing mother

PROMPT Flex - Compression Suture Uterus

This module allows for the training in performing a compression suture and ligating the uterine artery. Used in conjunction with the 80171 Pre-incised Delivery Skin, it provides the ideal training platform for repeat practise of uterine compression suturing.

This product is based on concepts and collaboration with:

- Dr Carol L. Simmons, MD SimTunes, LLC.
- Dr Mona Sharma, Consultant Obstetrician and Gynaecologist at Queen’s Hospital, Romford BHR NHS Trust.

SKILLS

- All common types of Compression Suture procedures (including B-Lynch, Hayman and Pereira)
- Dissection of broad ligament
- Ligation of uterine arteries

QUALITIES

ANATOMY
- A representation of post-partum uterus including uterine arteries and broad ligament

KEY FEATURES
- Uterine arteries can be fluid filled
- Ligation of arteries is possible
- Multiple uses when conducting the compression suture

VERSATILITY
- Can be quickly and easily fitted into the birthing mother
PROMPT Flex - PostPartum Haemorrhage 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
  - Haemostatic 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

WHAT’S INCLUDED

- 80101  PPH Module
- 80111  Compression Suture Uterus (Pack of 2)
- 80171  Pre-incised Delivery Skin for PROMPT Flex

PROMPT Flex - Cervical Cerclage Module

Ideal for practising the necessary skills required for performing cervical cerclage. Trainees can have exposure to performing both elective and emergency cervical cerclage procedures.

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

WHAT’S INCLUDED

- 80181  Cervical Cerclage Frame
- 80182  Cervical Cerclage Vagina
- 80183  Cervical Cerclage Elective OS (x5)
- 80184  Cervical Cerclage Emergency OS (x5)
- 80185  Cervical Cerclage Amniotic Sacs (x5)
- 80186  Cervical Cerclage Fluid System
PERINEAL REPAIR AND EPISIOTOMY TRAINER RANGE

This multifaceted trainer allows for the development and maintenance of the skills of episiotomy and perineal repair. A common stand accommodates a choice of two different perineal repair blocks, one anal sphincter repair block and one unincised block. The addition of the episiotomy module gives a cost-effective and realistic training platform for this fundamental skill.

Mediolateral Perineal Repair Trainer

The module reflects the current teaching practice in the UK, supporting the learning of 2nd degree mediolateral perineal repair, as well as anatomy identification and determining the extent of different traumas.

QUALITIES (Common in all 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
- 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

OPTIONAL EXTRA

For those looking to extend their training, the following perineal repair blocks are available, and also fit into the Perineal Repair Stand (61109).

2nd Degree Midline Perineal Repair Block (x2)

With the same level of fidelity, the midline block can be used in the training of midline perineal repair.

Unincised Perineal Repair Block (x2)

Ideal to create specific scenarios, this trainer can alter the severity or placement of the tear to match the teaching objectives.
Anal Sphincter Repair Trainer

Ideal for practising repair of 4th degree anal sphincter injuries (OASI), its realistic anatomy allows for repair of both the internal and external anal sphincter and anal mucosa.

**SKILLS**
- 4th degree repair
- 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

**WHAT’S INCLUDED**

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<td>61110</td>
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Optional Extra

This cost-effective, simplified model has been created to use in classroom settings to ensure the acquisition of confidence in the training of episiotomy. The crowning of the head gives trainees a true-to-life experience.

Episiotomy Trainer Module

**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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<td>61116</td>
<td>Episiotomy Illustration Pack - Light</td>
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*Perineal Repair Stand (61109) to be purchased separately
Surgical Female Pelvic Trainer (SFPT) Mk 2

60251

A simulator for training in a wide range of laparoscopic gynaecological 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 gynaecological 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
  - Myomectomy
  - Hysterectomy
  - Oophorectomy
  - Dissection down to and location of ureters
  - Insertion and use of uterine manipulator
  - Working with various gynaecology 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
- SFPT Mock Blood Kit (includes reservoir and pump)
- Blunt dispensing needle and syringe

Consumables

- SFPT Uterus (x5)
- SFPT Uterus (x10)
- Concentrated Venous Blood

Patents granted
- US6336812
- DE69804793
- CA 2293585
- ZL98806331
- HK1023832
- 755575 Australia
Gynae Dissection Pad

50116

An intermediate laparoscopic technique trainer for gynaecological surgery. The round and broad ligaments, ureters and uterine artery are represented in 3 dimensions.

To be used in conjunction with the 50151 Soft Tissue Retaining Set.

SKILLS

• Dissection of the round and broad ligament
• Division of tissues in 2 planes
• Arterial ligation
• Suturing and stapling in 2 planes
• Vessel cutting
• Identification of ureters, uterine artery, and mobilisation

QUALITIES

ANATOMY
• Arterial and ureteric fluid-filled vessels with 5 crossing points, artery over ureter

REALISM
• Patented material for realistic suturing and stapling
• Realistic tissue layers and instrument response

KEY FEATURES
• Cost-effective, convenient and hygienic

VERSATILITY
• Up to 5 uses for gynae technique practice, and afterwards for basic skills

SAFETY
• Skin and veins contain latex

WHAT’S INCLUDED

50116 Gynae Dissection Pad

NCPR Simulator Plus

KKMW21

This anatomically accurate, life-size model of a 4 week old female newborn infant is ideal for training in a range of essential care skills.

SKILLS

• Injection (arm and leg) and catheterisation
• Umbilical catheterisation and care
• Nasogastric and orogastric tube feeding
• Airway suction
• Endotracheal tube placement
• Airway management
• Assessment of anterior fontanel
• CPR

QUALITIES

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

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

KEY FEATURES
• Supports 3 types of injection and catheterisation training: direct vision, transilluminated and ultrasound guided PICC

CLEANING & CARE
• Skin is washable using soap and water

WHAT’S INCLUDED

• Newborn care baby
• Simulation blood tube (red)
• Simulation blood tube (blue)
• Simulation blood
• Syringe
• Lubricant
• Plastic jar
• Instruction manual
TruBaby X provides a complete solution for paediatric clinical skills training. Incredibly lifelike with the appearance, weight, size and movement of a 5-month-old infant.

It is an ideal model for practicing Directly Observed Practical Skills (DOPS), Paediatric 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**
- Includes 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 pneumothoax

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

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

**WHAT’S INCLUDED**

- **TCTB10001** TruBaby X Model
- **TCTBN004** Needle Decompression Inserts (x2 Left & x2 Right)
- **TCTBCD04** Chest Drain Inserts (x2 Left & x2 Right)
- **TCTBARM01UL** TruBaby X Ultrasound Arm (Left)
- **TCTBARM01UR** TruBaby X Ultrasound Arm (Right)
- **TCTBI020** TruBaby X IO Inserts (x5 Left & x5 Right)
- **TCTBLUM04** 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 Child Combo X

Ideal for practising 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
- Fibre optic 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
- Realistic feedback during airway management procedures including bag/mask ventilation, supraglottic airway insertion, both naso and orotracheal intubation

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

---

AirSim Baby X

The AirSim® Baby X, based on a 0 to 6-month-old, provides a realistic and anatomically correct paediatric 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 paediatric videolaryngoscopes

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

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- Carry case

---

AirSim Child Combo X

Ideal for practising 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
- Fibre optic 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 visualisation 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.
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WHAT’S INCLUDED
- AirSim Child Combo X
- Child lung bag set
- Spare larynx inserts (x4)
- Airway lubricant
- USB user manual
- Carry case
Paediatric Lumbar Puncture Simulator II

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

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

QUALITIES
REALISM
- Body of the manikin is soft and flexible

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

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

WHAT’S INCLUDED
- Paediatric Lumbar Puncture Block (12mm) (x2)
- Paediatric Lumbar Puncture Block (17mm) (x2)

Nita Newborn

An anatomically correct manikin representing a 1.8kg, 40cm long female baby for teaching and practising 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 catheterisation
- Venepuncture including heparinisation and fluid infusion

QUALITIES
ANATOMY
- Venepuncture 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
Nickie® Medical Training Doll

Nickie® is used to practise 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

QUALITIES

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

PAT - Paediatric Auscultation Trainer

This paediatric auscultation trainer with listening points at the correct anatomical locations also has heart sounds at different rates for comparison.

SKILLS
- Use and placement of a stethoscope
- Identification of sounds and their variations
- Relationship between sounds and auscultation sites
- Ability to describe sounds clearly to others

QUALITIES

REALISM
- Anatomically accurate auscultation sites

KEY FEATURES
- Total of 99 sounds supplied: 23 heart (at 75bm and 90 bm), 4 heart lung and palpation, 15 paediatric breath, 3 paediatric bowel
- Customised volume adjustments
- Variable heart and respiration rate
- Software includes visual phonocardiograms
- Includes free online Site License

VERSATILITY
- Suitable for lab, classroom or online
- Students can use their own stethoscopes
- Portable and easy to use

WHAT’S INCLUDED
- PAT Trainer
- Dell laptop with PAT software installed
- PAT powercord
- USB cables
- PAT T-shirt
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

**70200**

With tablet included, the accompanying Android app allows learners and teachers to visualise 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
  (1 x spare shoulder skin supplied)
• 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**

- **70212** Shoulder Module - Palpation Guided
- **70210** Shoulder Skin (x1 spare)
- **70215** Shoulder Torso
- **70108** 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**

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 under ultrasound the suprascapular nerve

**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 visualising 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 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 colour

**SAFETY**
- Latex free

**WHAT’S INCLUDED**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>70213</td>
<td>Shoulder Module - Ultrasound Guided</td>
</tr>
<tr>
<td>70215</td>
<td>Shoulder Torso</td>
</tr>
<tr>
<td>70217</td>
<td>Ultrasound Shoulder Filling Kit</td>
</tr>
<tr>
<td>70108</td>
<td>Needle Set</td>
</tr>
<tr>
<td>70022</td>
<td>Synovial Fluid (250ml)</td>
</tr>
<tr>
<td></td>
<td>- Elbow</td>
</tr>
<tr>
<td></td>
<td>- Carry Case</td>
</tr>
</tbody>
</table>
Knee Aspiration & Injection Trainer with Ultrasound Capability

**70103**

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
- 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 colour 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**

- **70104** Ultrasound Knee Module for Aspiration & Injection
- **70106** Fluid Bag and Stand
- **70107** Synovial Fluid (Including Syringe)
- **70108** Needle Set – 3 Green Needles, 1 Syringe, 1 Sharps Bin
- **BKS113860417** Joint and Soft Tissue Injection Book (6th Ed)
  - Leg unit, including removable supports
  - Carry case
Elbow for Joint Injection

30080

For practising 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

- Skin contains latex

WHAT’S INCLUDED

- 30023 ‘No-Trace’ Marker
- 30093 Elbow Needle Set
- 30081 Elbow Skin
- BKS113860417 Joint and Soft Tissue Injection Book (6th Ed)
  - Elbow base unit
  - Feedback console with batteries
  - Carry case

Hand & Wrist for Joint Injection

30031

An articulated right hand and wrist used for practising soft tissue joint injection for the treatment of injuries and arthritis.

SKILLS

- Patient posture and management
- Identifying anatomical landmarks
- Relevance of digital movement for presentation of injection sites
- Injection in 4 specific areas:
  - Carpal tunnel
  - Trigger finger/tendon sheath injection
  - De Quervains sheath
  - First carpo-metacarpal joint
- Precise placement of needle to avoid median nerve

QUALITIES

ANATOMY

- Simulates normal anatomical reference points for: carpal tunnel, palmaris longus tendon, distal wrist crease and tendon to the flexor carpi radials

REALISM

- Articulated joints

KEY FEATURES

- Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired and when the median nerve has been hit

VERSATILITY

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

SAFETY

- Skin contains latex

WHAT’S INCLUDED

- 30023 ‘No-Trace’ Marker
- 30092 Hand & Wrist Needle Set
- 30040 Hand & Wrist Skin
- BKS113860417 Joint and Soft Tissue Injection Book (6th Ed)
  - Hand and wrist base unit
  - Feedback console with batteries
  - Carry case
Colonoscopy Training Model

This model presents a wide range of challenges to trainees performing a colonoscopy, from simple and uncomplicated cases to difficult and sensitive variation. Provides the necessary training required to avoid patient pain and discomfort during an examination.

**SKILLS**
- Colonoscope insertion and withdrawal
- Insufflation and suction of colon
- Manipulation of colonoscope

**QUALITIES**

**REALISM**
- Soft, flexible and airtight colon tube allows for realistic colonoscope insertion and withdrawal

**KEY FEATURES**
- 5 different colon layout guides, with 6 case studies
- Manual abdominal compression can be practised by using the supplied skin cover
- Colon tube can be made airtight, allowing for insufflation and suction
- Anal sphincter opening can be manipulated by a hand pump

**VERSATILITY**
- May be oriented in left/right lateral or supine positions
- Newly developed lubricant gels (included) provide for smooth colonoscope manipulation as well as reduced wear of the colon tube
- The colon tube is easily attached to the abdomen body, according to each particular case to be studied

**CLEANING & CARE**
- The colon tube is detachable and easy to clean with water

**WHAT’S INCLUDED**

- KK11361-010 Colon-rectum Tube
- KK11361-020 Anus Unit
- KK11361-030 Colon Fixture Set
- KK11361-120 Colon Layout Guide
- KK11361-040 Concentrated Lubricant For Colon-rectum Tube (blue)
- KK11361-050 Lubricant Pack For Endoscope (pink)
  - Instruction manual and training guide
  - Abdominal shell
  - Stand
  - Abdominal skin
  - Rubber sheet
  - Plastic bottle
  - Storage case

Foot & Ankle for Joint Injection

A foot and ankle for practising 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
  - Tarsal Tunnel
  - Sinus Tarsi
  - Tibiotalar Joint
- Morton’s Neuroma
- Plantar Fascia
- Retrocalcaneal Bursa
- 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**

- 30095 Foot & Ankle Needle Set
- 30101 Foot & Ankle Skin
- 70102 Foot & Ankle Musculature
- BKS113860417 Joint and Soft Tissue Injection Book (6th Ed)
  - Foot and ankle base unit
  - Feedback console with batteries
  - Carry case
For securing synthetic soft tissue components used in intermediate surgical training and laparoscopic trainers.

Ideal addition to the Limbs & Things Laparoscopic Skills Trainer USB (50301).

**Common features for both Large & Small Surgical Dissection Pads**

**SKILLS**
- Incision
- Stapling
- Ligation
- Suturing
- Mobilisation
- Dissection
- Division

**QUALITIES**

**REALISM**
- Provides a realistic response with steel blade laparoscopic instruments or a harmonic scalpel
- Convincing appearance when viewed through laparoscope
- Made from patented material which provides for realistic suturing and stapling

**KEY FEATURES**
- Cost-effective and extremely convenient when compared with animal tissue

**VERSATILITY**
- Wet laboratory not required

**SAFETY**
- Veins contain latex

**Large Surgical Dissection Pad**

- 50114

A unique multi-layered pad with 14 fluid filled vessels for training in the 7 basic surgical techniques used in open and laparoscopic surgery.

Contains 3 types of vessel: venous, arterial and bile.

**Small Surgical Dissection Pad**

- 50118

A multi-layered pad with 4 fluid-filled vessels for training in the basic surgical techniques, as listed for the Large Surgical Dissection Pad (50114).

The lower cost of this pad makes it ideal for individual or 2 person training; ideally issued to trainees at the start of a course or for self-directed learning.

Contains 2 types of vessel: arterial and bile.

**Soft Tissue Retaining Set**

- 50151

For securing synthetic soft tissue components used in intermediate surgical training and laparoscopic trainers.

Ideal addition to the Limbs & Things Laparoscopic Skills Trainer USB (50301).

**KEY FEATURES**
- Variable slope jig allows practice of surgical skills at varying angles for more realistic and/or difficult presentation of components
- Provides for structured and staged learning

**VERSATILITY**
- Easy-to-use and versatile: sucker feet allow for easy positioning and removal on smooth surfaces
- Can be fitted into other laparoscopic boxes/trainers

**CLEANING & CARE**
- Hardwearing
- Retaining clips recommended for use on a smooth work surface or on the variable slope jig to stabilize synthetic bowel, arteries and veins and flat pads
- Easy to clean
FUNDAMENTALS OF LAPAROSCOPIC SURGERY™ TRAINERS

Working closely with the SAGES-ACS FLS Committee, we have revolutionised 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 centres.

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 centres.

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 centre with everything required to run an FLS Training program.

Visit fls-products.com for more information about the FLS Trainer System
WHAT’S INCLUDED

- Trainer Box ✓ ✓ ✓
- Camera - TV (with lead) ✓ ✓ ✓
- Light Strip ✓ ✓ ✓
- Power Cable ✓ ✓ ✓
- Simulated Skin ✓ ✓ ✓
- String & Alligator Clips (x2) ✓ ✓ ✓
- Trocar (x2) ✓ ✓ ✓
- Peg Board with 6 Triangles ✓ ✓ ✓
- Jumbo Clip Retainer ✓ ✓ ✓
- Single Circle Gauze (x25) ✓ ✓ ✓
- Double Circle Gauze (x25) ✓ ✓ ✓
- Foam Organs (x3) ✓ ✓ ✓
- Suture Block ✓ ✓ ✓
- Penrose Drains (x50) ✓ ✓ ✓
- Single Use Ligation Loops (x3) x x ✓
- Multi-Use Ligation Loops (x5) x x ✓
- Sutures 2/0 Silk 90cm, 26mm Needle (x50) x x ✓
- 19” TV x ✓ ✓
- Mobile SimCart x ✓ ✓
- FLS Approved Instrument Kit x x ✓

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

Instrument Kit
50380 FLS Approved Instrument Kit (8 Pieces)*
50381 Pair of Maryland Dissectors*
50382 Graspers (Locking)*
50383 Endoscissors*
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
Limbs & Things Laparoscopic Skills Trainer USB

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

**OPTIONAL EXTRAS**

**WHAT’S INCLUDED**

- Trainer box
- USB camera with lead
- Light strip
- Power cable
- Simulated skin
- String & alligator clips
- Trocars (x2)

Visit [fls-products.com](http://fls-products.com) for more information about a range of tasks
Vermiform Appendix

A series of three models representing the different locations in which the vermiform appendix is to be found. Trainees will move on from the Surgical Dissection Pads (50118 & 50114) to this progressive 3 stage appendices suite:

- Normal (as found in 32% of patients)
- Post-ileal (as found in 1% of patients)
- Retrocaecal (as found in 64% of patients)

Each model has the additional feature of a simulated peptic ulcer, for closure using peritoneum and mesentry.

**SKILLS**

- Excision and division of peritoneum
- Identification and exposure of appendix
- Mobilisation and division of vessels
- Removal of appendix
- Inspection of stump of appendix
- Repair and closure of peptic ulcer

**QUALITIES**

**ANATOMY**

- Highly realistic model of appendix, caecum, and ileum stump presented anatomically

**REALISM**

- Convincing fluid filled vessels, caecum contents, and tissues encourage correct handling of tissue

**KEY FEATURES**

- The variations available in the range of appendices provide increased levels of difficulty

**VERSATILITY**

- Vessel incorporates a luer lock to which the Mock Blood Giving Set (60651) may be attached to provide fluid flow for the appendicular artery. Use Mock Blood - Arterial (250ml) (60653)
- Ideal for training course requirements; the model is designed for swift attachment to and removal from the Soft Tissue Retaining Set (50151)

**SAFETY**

- Contains latex

**Patents granted**

- US6336812 • EP0990377 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
Gall Bladders

A series of 4 highly realistic models of increasing complexity for structured and staged training in gall bladder removal.

Trainees progress from the Surgical Dissection Pads (50118 & 50114) to this range of Gall Bladders.

**SKILLS**

- Incision and dissection of the visceral peritoneal layer
- Division and mobilisation of vessels
- Ligation of cystic artery and cystic duct
- Removal of gall bladder
- Visualisation and recognition of anatomical landmarks and organ variations
- All 7 skills defined for the Surgical Dissection Pad, within this procedure
- Cholangiogram catheter insertion and stone retrieval

**QUALITIES**

**REALISM**

- Highly realistic view through the laparoscope, and the tissue response to cutting and dissection is convincing

**KEY FEATURES**

- The 4 variations of gall bladder provide increased levels of difficulty, and the element of surprise is introduced and controlled
- All vessels and the gall bladder are fluid filled

**VERSATILITY**

- Incorporates a luer lock to which the Mock Blood Giving Set (60651) may be attached to provide fluid flow for the appendicular artery. Use Mock Blood - Arterial (250ml) (60653)
- When running a course, the used component can be removed and replaced with a new one in seconds

**SAFETY**

- Contains latex

---

**NORMAL ANATOMY**

- 50127

**BIFURCATED CYSTIC ARTERY**

- 50128

**SHORT CYSTIC DUCT**

- 50129

**WIDE COMMON BILE DUCT & STONES**

- 50132

Patents granted

- US6336812 • EP0990077 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
Freddie Fistula™ Skills Trainer

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

SKILLS

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

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

VTA0230  Freddie Fistula™ Wound Care Skills Trainer
VTA0232  1 Quart Bottle of Effluent Concentrate
VTA0234  3-Way Tube Set With Color-coded Pinch Clamps
VTA0235  Support Rod
VTA0611  500ml Effluent Fluid Bag
VTA0231  Carry case

‘Pat’ Pressure Injury Staging Model™

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

SKILLS

- Wound identification and assessment
- Routine cleansing
- Dressing techniques

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 practised 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

WHAT’S INCLUDED

VTA0230  Freddie Fistula™ Wound Care Skills Trainer
VTA0232  1 Quart Bottle of Effluent Concentrate
VTA0234  3-Way Tube Set With Color-coded Pinch Clamps
VTA0235  Support Rod
VTA0611  500ml Effluent Fluid Bag
VTA0231  Carry case
Based on a 74-year-old patient, this model aids in the identification and assessment of wounds. Once the different aetiologies 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

---

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

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

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**WHAT’S INCLUDED**
- Wilma Wound Foot
- Stand
- Legend
PRODUCT RANGES
UNDERGRADUATE MEDICINE

Designed to meet the core training needs and essential skills required at undergraduate level in the UK 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 UK today.
ATLS

This range offers a cost-effective solution to the simulation equipment needed for ATLS 10th Edition making it easy for training providers to deliver this course.
PARAMEDIC TRAINING

From patient assessment and basic care in years 1 & 2, to more advanced skills in year 3, this range covers essential training elements required for training paramedics.
OSCE TRAINING

It’s important students feel confident taking the Objective Structured Clinical Examination. These products are designed to train and test clinical skill performance for the OSCE.
These products cover the broad set of skills required from Physician Associates including: physical exams, diagnosing illnesses, care coordination as well as a variety of procedures.
Nurses are increasingly extending their scope to work at an advanced practice level. The Advanced Nursing Practice Range both builds on, and adds to, skills common to all registered nurses.
For training in ultrasound guided procedures, the range is made of materials similar to human tissue, allowing trainees to practice advanced visualising or injecting techniques while using ultrasound imaging for accuracy.
SEE HOW A PRODUCT WORKS

- SHORT & INFORMATIVE PRODUCT VIDEOS
- 5 LANGUAGE OPTIONS
- HANDS ON DEMONSTRATIONS
- LATEST PRODUCTS

www.youtube.com/limbsandthings
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