limbs & things

INTERNATIONAL CATALOGUE 2021
How much difference can we make in the face of a year like 2020?

Confronted by worldwide challenges, the people of Limbs collectively have delivered with a common goal at the forefront of our minds - to support healthcare professionals for better patient outcomes.

Now more than ever, the feeling of closeness, resilience, and support one for the other has kept us going; we are proud that this attitude has extended beyond the Limbs team, making a difference in the wider world.

Working independently whilst remaining part of a larger force within the company is one of our strengths. Never before have we owed so much to the loyalty and perseverance of our People at Limbs, worldwide.

The dedication of the team, the loyalty and the determination has enabled us to achieve great things so far. The results speak for themselves, and I have great confidence that we will be even more successful in the coming year.

Margot Cooper
PROMPT Birthing Simulator

SimMom Partnership with Laerdal

1st Online course Suture Tutor Plus

Introducing Ultrasound capabilities to our Joint Injection range

SimMom Partnership with Laerdal

Queen’s Award for Enterprise Innovation

Improved Clinical Male Pelvic Trainer

Lloyds Bank National Business Awards - Entrepreneur of the Year

2010

Advanced Venepuncture Arms

2nd Dr Frank H Netter Award

Waldemar Larsson acquired

2020

Queen’s Award for Enterprise Innovation

Improved Clinical Male Pelvic Trainer

New factory

Dark skin tone range
WHAT'S NEW

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By increasing realism, we develop true to life responses.

The **Clean Bleed™ Mat** has been designed to support any simulation scenario, with any brand of trainer, where external blood or fluid loss is a key indicator and measure of emergency interventions taken, such as gunshot wounds, post-partum haemorrhage or post-operative bleeds.

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

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

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

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

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

**How does it work?**

**KEY FEATURES & BENEFITS**

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

**SKILLS**

- Visual inspection or body assessment
- Identification and assessment of the speed and colour of the bleed or flow
- Assessment of the speed and relevance of the initial trainee interventions
- Assessment of the ongoing patient condition and impact of prior interventions on the patient
Post simulation, the pump mechanism can be reversed to remove the majority of the blood back into the fluid reservoir. The residual blood within the pad can be manually drained away or washed for repeat usage.

Where would I use it?

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

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

The **Clean Bleed™ Mat** is independent of any training system and can be used alongside both simple and complex training models (as well as simulated patients) for use in simulation.

Easy to clean up?

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

Can I use my own pads?

The design of the mat bag allows the use of a standard sized inco/chux pad (60 x 90 cm).
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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<thead>
<tr>
<th>CFPT Abdominal Insert</th>
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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.

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

QUALITIES

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

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

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

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

SAFETY
• Latex free

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

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

WHAT’S INCLUDED

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OPTIONAL EXTRAS

40209  Medium Carry Case

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

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* Advanced model
**WHAT’S INCLUDED**

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**OPTIONAL EXTRAS**

- **60172** Standing Position Stand
- **40209** Medium Carry Case
Clinical Male Pelvic Trainer (CMPT) Mk 2 - Standard & Advanced

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

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


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

SKILLS
- Correct examination procedure of male pelvis
- Examination and evaluation of:
  - Normal anatomy
  - Testicular abnormalities
  - Abdominal and pelvic pain
- Dry 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
WHAT'S INCLUDED

| CMPT Module 1: Normal         | ✓  | ✓  |
| CMPT Module 2: Varicocele    | ×  | ✓  |
| CMPT Module 3: Tumours       | ×  | ✓  |
| CMPT Module 4: Epididymal Cysts | ×  | ✓  |
| CMPT Module 5: Hydrocele     | ×  | ✓  |
| CMPT Module 6: Orchitis/Epididymo-orchitis | ×  | ✓  |
| CMPT Module 7: Indirect Inguinal Hernia | ×  | ✓  |
| CMPT Abdominal Insert        | ✓  | ✓  |
| CMPT Pubic Bone              | ✓  | ✓  |
| CMPT Foreskins Pack (each pack contains 2 foreskins & 3 lubricant sachets) | ✓  | ✓  |
| Lower Torso                  | ✓  | ✓  |
| Support base                 | ✓  | ✓  |
| LED pen torch                | ×  | ✓  |
| Carry case                   | ✓  | ✓  |

CMPT Abdominal Insert
CMPT Pubic Bone
CMPT Foreskins Pack (each pack contains 2 foreskins & 3 lubricant sachets)

Patents granted: US6336812, EP099027, DE69804793, CA2293585, ZL98806331, HK1023832, 755575 Australia
Abdominal Examination Trainer

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

SET-UP EXAMPLES FOR SCENARIOS

<table>
<thead>
<tr>
<th>ACUTE URINARY RETENTION - BLADDER</th>
<th>SLIGHTLY ENLARGED LIVER</th>
<th>OVARIAN CYST - SMOOTH SOFT MASS</th>
<th>ENLARGED KIDNEY</th>
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<tbody>
<tr>
<td>CARCINOMA ON MASS IN LEFT ILIAC FOSSA</td>
<td>CARCINOMA WITH LIVER METASTASIS</td>
<td>LYMPHOMA</td>
<td>AORTIC ANEURYSM</td>
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</table>
**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**

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<td>Abdominal Examination Rectus Bag</td>
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You may also be interested in:
60002 Abdominal Examination Trainer Value Set
Visit [limbsandthings.com](http://limbsandthings.com)
The Venepuncture Arm Range provides the ideal training platform for practising the skills related to venepuncture and IV cannulation. Suitable for undergraduate and postgraduate level training.

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

Basic Venepuncture Arm  
70304  70305  
Designed with a basic vein structure, this model contains basilic and cephalic veins only.

Standard Venepuncture Arm  
70302  70303  
For cost effective training the modular vein system contains ACF and metacarpal vein anatomy.

Advanced Venepuncture Arm  
70300  70301  
The Advanced Venepuncture Arm features ACF and metacarpal vein anatomy which is connected to a pressurised fluid system for a realistic blood supply.
SKILLS

- Venepuncture
- IV Cannulation
- IV Infusion
- Practise of aseptic technique

QUALITIES

REALISM

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

KEY FEATURES

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

VERSATILITY

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

SAFETY

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

CLEANING & CARE

- Easy to clean, service and maintain

NEW FEATURES COMPARISON

<table>
<thead>
<tr>
<th>Feature</th>
<th>70304</th>
<th>70302</th>
<th>70300</th>
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<tr>
<td>Patented skin locking mechanism</td>
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<tr>
<td>Vein gripping system for easy set up</td>
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<td>Modular veins for cost effective training</td>
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<tr>
<td>Realistic palpable veins</td>
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<td>Realistic blood flashback</td>
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<td>Extended tubing for hybrid simulation</td>
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<tr>
<td>Gravity system</td>
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<tr>
<td>Pressurised fluid system</td>
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WHAT’S INCLUDED

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<td>Basic Venepuncture Arm Vein</td>
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<td>ACF Vein Module</td>
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<td>Metacarpal Vein Module</td>
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<td>Gravity System Blood Supply</td>
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<tr>
<td>Concentrated Venous Blood - Starter Pack</td>
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<td>✓</td>
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<td>Venepuncture Arm Rest</td>
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<tr>
<td>Refill Bottle</td>
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<td>Venepuncture Arm Infusion Tube</td>
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<tr>
<td>Lube Sachet (x3)</td>
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</table>
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 a Simulated Patient
- Strap onto the antecubital fossa of the arm
- Veins are: self-sealing for repeated use, rechargeable via a one-way valve, supplied with mock blood under pressure and replaceable

VERSATILITY

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

SAFETY

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

CLEANING & CARE

- Replaceable epidermis
- Washable using soap and water

WHAT’S INCLUDED

| Vein for ACF Pad | Epidermis for ACF Pad | Pad Base with Strap |

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

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.
Cutdown Pad

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

• Veins contain latex

Concentrated Venous Blood

The Concentrated Venepuncture Blood has been formulated to greatly improve the leak resistance of veins.

A synthetic solution dilutes to the correct colour and viscosity of venous blood. For some vacuum collection systems, you may wish to dilute further.

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

Makes 2.5 liters of mock blood. Non staining.

Mock Blood - Venous

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

Mock Blood - Arterial

250ml of synthetic solution made to the correct colour and viscosity of arterial blood.
Injection Trainer

00310

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

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

Ultrasound Vascular Access Trainer

60530

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

SKILLS

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

QUALITIES

REALISM
- Echolucent material provides realistic ultrasound image

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

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

SAFETY
- Veins contain latex

WHAT’S INCLUDED

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

This trainer fulfills the fundamental component of core medical training in diagnostic and therapeutic techniques of paracentesis. Both landmark and ultrasound guided techniques can be 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 practised (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

Paracentesis Skin
Paracentesis Pads (x2)
Paracentesis Liver
Paracentesis Spleen
Paracentesis Bowel Insert
Paracentesis Floating Bowel
Paracentesis Clamping Frame
Paracentesis Large Volume Refill System
Base unit
Carry case
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**
- **60870**

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

Replaceable and removable foreskin.

**Female Catheterisation Trainer**

- **60851**
- **60869**

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**
- **60873**

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

Fits into Male and Female Catheterisation Trainers.
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)

WHAT’S INCLUDED

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</table>
Chest Drain & Needle Decompression Trainer

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

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

QUALITIES

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

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

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

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

SAFETY
• Latex free

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

Ideal for ATLS V10 courses

60230 61230
## CHEST TRAUMA MANAGEMENT

### PAD FEATURE COMPARISON

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<thead>
<tr>
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<td>Effusion</td>
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<td>Needle insertion</td>
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<td>Guidewire insertion</td>
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<tr>
<td>Drain tube insertion</td>
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<tr>
<td>Use with adhesive dressings</td>
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<tr>
<td>Shows respiratory swing</td>
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<td>Latex free</td>
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<td>Advanced Chest Drain Pads (x2)</td>
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<td>Standard Chest Drain Pads (x2)</td>
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<td>Chest Drain Rib Frame (Left)</td>
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<td>Chest Drain Rib Frame (Right)</td>
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<td>Chest Drain Lungs (x2)</td>
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<td>Chest Drain Diaphragms (x2)</td>
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<td>Chest Drain Ribs (x12)</td>
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<td>Chest Drain Pump: Respiratory Swing</td>
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<td>Chest Drain Pump: Needle Decompression</td>
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<td>Chest Drain Slotted Retaining Knobs</td>
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<td>Torso</td>
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<td>Carry case</td>
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</table>
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 advanced learning. Designed in conjunction with clinicians, the models feature realistic feel and response while offering a safe environment for learning and skill maintenance.

Lumbar Puncture Model

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

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

Advanced Epidural & Lumbar Puncture Model

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

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

Ultrasound Epidural & Lumbar Puncture Model

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

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

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

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

**KEY FEATURES**
- Position in left lateral and sitting

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

* 61001 | 61024 Only

**SKILLS**

- Injection of local anaesthetics
- Lumbar puncture
- Collect and measure CSF
- Epidural administration
- Ultrasound-guided technique
- Obese option

**WHAT’S INCLUDED**

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<tr>
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</table>

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

---

29
SUTURE TUTOR PLUS™

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

SUTURE TUTOR PLUS™ is a complete training package to help medical students and healthcare professionals master fundamental hands-on skills relating to instrument handling, knot tying and suturing.

The product consists of two parts which can be purchased individually, or together as a complete package.

Online, Video-based Course

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

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

WHAT’S INCLUDED

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

CHOOSE YOUR PRODUCT

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

Hands-on Kit

A Hands-on Kit including a professional skin pad, 10 sutures, basic knot tying kit and all necessary instruments to allow repeated practice of suturing techniques.

Can be purchased on its own or with the online course.

WHAT’S INCLUDED

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

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**
- Double Layer Bowel 30mm
- BSS Lesion & Cyst
- BSS Surgical Skills Board
- BSS Tendon Repair Trainer
- BSS knot tying trainer
- Skin pad jig with skin pad
- BSS soft tissue retaining set
- 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**
- BSS Abscess
- BSS Traumatic Wound with Simulated Foreign Bodies
- BSS AOCT Pad
- BSS AOCT Frame
- Drain
  - 8mm x 140mm artery
  - 8mm x 76mm graft patch

BSS Day 1 Refill Pack

**WHAT’S INCLUDED**
- Skin pad
- Bowel
- Haemostasis pad
- BSS lesion & cyst
- Tendon

BSS Day 2 Refill Pack

**WHAT’S INCLUDED**
- AOCT pad with drain
- BSS abscess
- BSS traumatic wound
- Artery with graft patch
Knot Tying Trainer

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

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

SKILLS

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

Double Layer Bowel

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

SKILLS

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

Professional Abdominal Opening & Closure Trainer (AOCT)

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

SKILLS

- Insertion of a veress needle
- Insertion of a trocar
- Hassen technique
- DPL techniques
- Incisions: linear, ellipse, flaps, shaped
- Subcuticular undermining
- Simple and advanced interrupted suturing techniques
- Subcuticular suturing
- Continuous suturing
- Stapling
- Use of adhesive strips

CONSUMABLES

50060  BSS Professional AOCT Pad
**BSS Lesion & Cyst**

![Image](image1.png)

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

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

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

**SAFETY**
- Veins contain latex

---

**BSS Abscess**

![Image](image2.png)

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

**SKILLS**
- Abscess drainage
- Necrotic wound debridement

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

**QUALITIES**
- Wound management
- Foreign body removal
- Traumatic wound debridement

---

**BSS Traumatic Wound**

![Image](image3.png)

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

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

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

**SAFETY**
- Latex free

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

---

**BSS Surgical Skills Board**

![Image](image4.png)

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

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

**SAFETY**
- Latex free

**WHAT’S INCLUDED**
- BSS Soft Tissue Retaining Set
  - Retaining clips with sucker feet (x2)
  - Retaining clips with attachment loops (x4)
- Skin pad jig
- Base

---
Skin Pad Jig Mk 3

00550

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

Wound Closure Pad

00042 00044

00041 00043

SMALL (x12) SMALL (x12)

LARGE (x6) LARGE (x6)

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

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.

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
- Blunt dissection
- Management of a burst cyst
- Removal
- Closure

QUALITIES

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

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

KEY FEATURES
- Pad dimensions: 125mm x 72mm

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

SAFETY
- Latex free

Curettage, Snip & Shave Excision Pad

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

SKILLS
- Snip excision
- Shave excision
- Curettage

QUALITIES

REALISM
- Stretches to allow realistic extension of the tissue surrounding the skin tags during snip excision
- Stretches to allow realistic extension of 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

90065

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

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

Ingrowing Toenail Trainer

80060 80061

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

Improved realism. Now latex Free.

SKILLS

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

WHAT’S INCLUDED

- Toe Jig
- Toe Ends (x3)

Two Person Minor Surgery Pack

90900

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

- Professional Skin Pads (small) (x2)
- Lipoma Pads (x2)
- Sebaceous Cyst Pads (x2)
- Curettage, Snip & Shave Excision Pad (small) (x2)
- Toe End
The PROMPT Flex Range and its modules are anatomically correct and have been designed in collaboration with clinicians to aid the training and practise of normal and difficult births (including shoulder dystocia), to improve the outcomes for mothers and babies during childbirth.

PROMPT Flex Enhanced Standard Baby

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

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

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

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

Perineal Repair Trainer

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

80100  80200

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

80106  80206

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

Tablet not included
Download app at limbsandthings.com

QUALITIES

ANATOMY
• Birth canal and cervix
• Ischial spines and pubic bone
• 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 McRoberts procedure
• Stretchable perineum
• Soft flexible birthing canal
• Additional modules to extend learning
• Optional lower legs for extended realism
• Optional wireless force monitoring for training in shoulder dystocia management

SAFETY
• Latex free

CLEANING & CARE
• Skin is washable using soap and water

SKILLS

80100  80106  80200  80206
• 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

80100  80106  80200  80206
Birthing Mother (+Upper Legs)
Standard Baby
Wireless Force Monitoring Baby
Placenta
Abdomen for PROMPT Flex
Perineum and Birth Canal
Bed Straps
Lubricant
Wheeled Carry Case
PROMPT Flex - Cervical Dilatation & 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)

WHAT’S INCLUDED

Perineum
Pelvic Ring
Static Rig
Dynamic Rig
Set of 7 Latent Labour Cervixes
Dynamic Cervix
Set of 5 Presenting Parts
Set of 2 Difficult Labour Heads
Amniotic Membrane Set
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**

Caesarean Section Surgical Pad (x2)
Perineum
Uterus for Caesarean Section Module
Pre-incised Delivery Only Skin
Surgical Skin
Cervix for Caesarean Section Module
Foam Uterus Support
Full Dilatation Pelvic Insert
PROMPT Flex - PPH Module

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

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

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

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

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

**QUALITIES**

**REALISM**

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

**KEY FEATURES**

- Blood loss of up to 2 litres can be simulated
- Air bulbs are used to stimulate blood flow and control atonic state of the uterus
- Multiple uses when conducting a compression suture

**VERSATILITY**

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

**WHAT’S INCLUDED**

- PPH Module
- Compression Suture Uterus (Pack of 2)
- Pre-incised Delivery Skin for PROMPT Flex
This module is the ideal tool for trainees looking to develop the skills of elective and emergency cervical cerclage.

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

**SKILLS**

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

**QUALITIES**

**REALISM**

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

**KEY FEATURES**

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

**VERSATILITY**

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

**SAFETY**

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

**WHAT’S INCLUDED**

- Cervical Cerclage Frame
- Cervical Cerclage Vagina
- Cervical Cerclage Elective OS (x5)
- Cervical Cerclage Emergency OS (x5)
- Cervical Cerclage Amniotic Sacs (x5)
- Cervical Cerclage Fluid System
- Cervical Cerclage Perineum

Developed in collaboration with:

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

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

Mediolateral Perineal Repair Trainer

- 2nd degree perineal repair (both Mediolateral & Midline)
- Tissue layer recognition and handling
- Suturing in two planes
- Vaginal mucosal suturing
- Deep muscle suturing
- Subcuticular suturing
- Identification and management of perineal tears

Midline Perineal Repair Trainer

- 4th degree repair (Anal Sphincter)
- Recognition of internal anatomy
- Tissue handling
- End-to-end repair of the external anal sphincter
- Overlap repair of the external anal sphincter
- Repair of the internal anal sphincter and anal mucosa

Anal Sphincter Repair Trainer

- Un-incised
- Tissue layer recognition and handling
- Performing infiltration (administering local anaesthesia)
- Identification of degree tear using the pill rolling technique
- Deep musculature suturing
- Superficial suturing
- Repair of 1st-4th degree perineal tears

SKILLS

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
OPTIONAL EXTRA
Episiotomy Module

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

SKILLS

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

QUALITIES

REALISM
- Realistic representation of tissue to represent a stretched perineum

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

WHAT’S INCLUDED

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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
  - Cystectomy
  - 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
Venous Blood Starter Kit
SFPT Mock Blood Kit (includes reservoir and pump)
Blunt dispensing needle and syringe

CONSUMABLES

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

Patents granted
- US6336812
- EP099027
- DE69804793
- CA 2293585
- ZL98806331
- HK1023832
- 755575 Australia
The Colles’ Fracture Trainer is an ideal training tool for learners looking to gain confidence in the reduction of Colles’ fractures occurring at the distal end of the radius. The portrayal of an elderly female arm coupled with a fractured distal fragment of the radius provides trainees with a platform for repeatable and consistent practice of manual Colles’ reduction (closed) and plastering techniques.

As is typical in a real-life emergency setting, the model allows trainees to perform visual inspections and identification before facilitating a team focussed Colles’ fracture reduction.

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

**QUALITIES**

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

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

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

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

**SAFETY**
- Latex free

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

Developed in collaboration with Dr Salwa Malik of Brighton and Sussex University Hospitals NHS Trust and Dr Yasir M. Shaukat of Surrey and Sussex Hospitals NHS Trust
SHOULDER INJECTION TRAINER RANGE

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

Shoulder Injection Trainer - Palpation Guided

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

SKILLS

- Practise 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

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

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

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

SKILLS

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

QUALITIES

REALISM
- Innovative materials within the shoulder create close to life ultrasound images

KEY FEATURES
- Echolucent materials visible under ultrasound represent the key internal landmarks
- Successful injection can be confirmed by 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 for up to 400 injections per site
- Altering the size of the bursa allows trainers to change the level of difficulty of training (less fluid is more challenging to inject)
- Synovial fluid has a realistic colour

SAFETY
- Latex free

WHAT’S INCLUDED

- Shoulder Module - Ultrasound Guided
- Shoulder Torso
- Ultrasound Shoulder Filling Kit
- Needle Set
- Synovial Fluid (250ml)
- Elbow
- Carry Case
Hand & Wrist Injection Trainer

70230

Suitable for all levels of training, the Hand & Wrist Injection Trainer allows trainees and clinicians to practice and teach injections in five different locations (Carpal Tunnel, De Quervain’s Sheath, Trigger Finger, First Carpometacarpal Joint, and the Distal Radioulnar Joint). The model also highlights when incorrectly injected, ensuring trainees learn to avoid the median nerve.

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

SKILLS

- Model allows for injection into:
  - The Carpal Tunnel
  - De Quervain’s Sheath
  - Trigger Finger
  - 1st Carpometacarpal Joint
  - Distal Radioulnar Joint
- Patient positioning and management
- Identification of anatomical landmarks

ANATOMY

- Injection Sites:
  - Carpal Tunnel
  - De Quervain’s Sheath
  - Trigger Finger
  - 1st Carpometacarpal Joint
  - Distal Radioulnar Joint
  - Trigger Finger Nodule
  - Median Nerve
- Bone structures:
  - Radial Styloid
  - Ulnar Styloid
  - Trapezius and Scaphoid
  - First Carpometacarpal Joint Space
  - Distal Radioulnar Joint Space
  - Lister’s Tubercle
- Internal Product Anatomy:
  - Palmaris Longus
  - Flexor Carpi Radialis
  - Extensor Digitorum Group
  - Extensor Digiti Minimi
  - Abductor Pollicus Longus
  - Extensor Pollicis Brevis
  - Extensor Pollicis Longus

QUALITIES

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

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

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

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

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

WHAT’S INCLUDED

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

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

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

SKILLS

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

ANATOMY

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

QUALITIES

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

Ultrasound Knee Module for Aspiration & Injection
Fluid Bag and Stand
Synovial Fluid (including Syringe)
Needle Set – 3 Green Needles, 1 Syringe, 1 Sharps Bin
Leg unit, including removable supports
Carry case
Foot & Ankle for Joint Injection

30100

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
  - Morton’s Neuroma
  - Tarsal Tunnel
  - Plantar Fascia
  - Sinus Tarsi
  - Retrocalcaneal Bursa
  - Tibiotalar Joint
  - Subtalar Joint

QUALITIES
- Realism
- Flexed right elbow, which rotates on the stand

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

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

SAFETY
- Latex free

WHAT’S INCLUDED
- Foot & Ankle Needle Set
- Foot & Ankle Skin
- Foot & Ankle Musculature
- Foot & Ankle base unit
- Feedback console with batteries

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
- Injection sites for:
  - Tennis Elbow (lateral epicondylitis)
  - Golfer’s Elbow (medial epicondylitis)
- Training in fan or cone infiltration techniques

QUALITIES
- Realism
- Flexed right elbow, which rotates on the stand

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

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

SAFETY
- Latex free

WHAT’S INCLUDED
- ‘No-Trace’ Marker
- Elbow Needle Set
- Elbow Skin
- Elbow base unit
- Feedback console with batteries
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
Limbs & Things Laparoscopic Skills Trainer USB

50301

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

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

**SKILLS**

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

**QUALITIES**

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

**OPTIONAL EXTRAS**

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

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

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

**QUALITIES**

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

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

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

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

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

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

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

**QUALITIES**

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

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

**KEY FEATURES**
- Positive fluid flow when vessels are accurately accessed
- 1000+ needle incisions with self-healing regenerating material
- Needle tracks disappear with very minimal damage to the material
- Colour doppler detection of blood flow

**VERSATILITY**
- Longitudinal and transverse anatomical viewing options
- High frequency linear array ultrasound probe can be used on the model

**CLEANING & CARE**
- Cleaning instructions can be found in the product user-guide
AirSim Advance X

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

Qualities

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

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

Skills

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

What’s Included

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

TruCric

The TruCric is ideal for 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.
TruBaby X

**TCTB10001**

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 thoracentesis approach for the treatment of a pneumothroax

**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**

- TruBaby X Model
- Needle Decompression Inserts (x1 Left & x1 Right)
- Chest Drain Inserts (x1 Left & x1 Right)
- TruBaby X Ultrasound Arm (x1 Left & x1 Right)
- TruBaby X IO Inserts (x3 Left & x3 Right)
- TruBaby X Lumbar Puncture Insert
- TruBaby X Carrier case
- USB pen drive user manual
- Bottle of TruCorp lubrication (100 ml)
- Bottle of artificial blood concentrate (250ml)
- Syringes with tubing and quick fit connectors (x2)
AirSim Baby X

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

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

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

AirSim Child Combo X

Ideal for 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.
- All consumables are quick and easy to interchange, perfect for a busy teaching environment

**WHAT’S INCLUDED**
- AirSim Child Combo X
- Child lung bag set
- Spare larynx inserts (x4)
- Airway lubricant
- USB user manual
- Carry case
Nickie® Medical Training Doll

Nickie® is used to 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

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, naso-tracheal 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
Chester Chest™ enables the teaching of central line care for physicians, nurses, home health staff, patients and support persons to develop competence in the management of most common types of vascular access devices.

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

**QUALITIES**

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

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

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

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

Peter PICC Line™

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**
- Arm Vein Tubing Set
- Body Vein Tubing Set
- Arm Skin
- Body Skin
- Rib
- Muscle Tissue
- Superior Vena Cava Viewing Vial
- 500ml Fluid Bag
- Carry case
The Basic Intraosseous (IO) Trainer is a simple training solution for trainees learning and practising IO insertion. Perfect for a classroom setting, the trainer’s realistic skin and bone materials allow for unmatched realism.

**SKILLS**
- Allows trainees to simulate intraosseous insertion

**QUALITIES**

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

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

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

**WHAT’S INCLUDED**
Bone/Skin for IO Trainer Base

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

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

**QUALITIES**

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

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

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

**WHAT’S INCLUDED**
Ostomy Training Pouch
Dehisced Wound Board

VTA3302
VTA3303

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

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

QUALITIES

REALISM
- Life-like feel and flexible material

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

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

Freddie Fistula™ Skills Trainer

VTA0230

This realistic skills trainer facilitates the instruction and practice of 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
Seymour II Wound Care Model™

Based on a 74-year-old patient, this model aids in the identification and assessment of wounds. Once the different 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

‘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

‘Wilma’ Wound Foot™

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

SKILLS

- Wound assessment
- Routine cleansing
- Dressing techniques
UNDERGRADUATE MEDICINE

Designed to meet the core training needs and essential skills required at undergraduate level.

MALE RECTAL EXAMINATION

FEMALE PELVIC EXAMINATION

MALE PELVIC EXAMINATION

CATHETERISATION

ABDOMINAL EXAMINATION

LUMBAR PUNCTURE

VENEPUNCTURE

INJECTIONS

BREAST EXAMINATION

BASIC SURGICAL SKILLS
NURSE TRAINING

Nursing is at the heart of healthcare, and these products reflect the core simulation training needs required for undergraduate and postgraduate nursing.
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.
From patient assessment and basic care in years 1 & 2, to more advanced skills in year 3, this range covers essential training elements required for training paramedics.
It’s important students feel confident taking the Objective Structured Clinical Examination. These products are designed to train and test clinical skill performance for the OSCE.
For training in ultrasound guided procedures, the range is made of materials similar to human tissue, allowing trainees to practise advanced visualising or injecting techniques while using ultrasound imaging for accuracy.
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2277826: UK • 5775916: USA • 0990227: Europe, UK, Germany, Spain, France, Italy, Netherlands • 81174/98: Australia • 1023832: Hong Kong • US6336812: USA • 98806331.x: China • 5-512288: Japan • 2 293 585: Canada

Patents applied for:
11-503978: Japan • 0215051:4: UK

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