What a great 30 plus years!

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

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

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

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

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

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

It’s time for expansion, collaborations, exploring new territories.

- Award won
- Collaboration
- Building expansion
- New office
- New product launched
- Partnership
"A truly International business

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

- CATHETERISATION TRAINERS
- EPIDURAL & LUMBAR PUNCTURE RANGE
- PROMPT FLEX - DARK SKIN
- PROMPT FLEX - CERVICAL CERCLAGE MODULE
- PERINEAL REPAIR & EPISIOTOMY
- SHOULDER INJECTION TRAINER - ULTRASOUND GUIDED
- TRUBABY X
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### PRODUCT RANGES

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<td>Clinical Ultrasound</td>
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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.

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

Ideal for OSCE preparation and assessment.
QUALITIES

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

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

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

SAFETY
• Latex free

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

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

WHAT’S INCLUDED

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

You may also be interested in:
60002 Abdominal Examination Trainer Value Set
Visit limbsandthings.com
The Rectal Examination Trainer offers realistic, repeatable training in the core skill of digital rectal or PR examination.

Both models include a contractile 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)

**QUALITIES**

*Advanced model

**ANATOMY**

- Buttocks, anus, rectum, prostate and perineum
- Pathological perineum – with polyp and rectal cancer*
- 4 abnormal prostates*:
  - Benign unilateral enlarged
  - Unilateral carcinoma
  - Benign bilateral enlarged
  - 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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<tr>
<td>40209</td>
<td>Medium Carry Case</td>
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Clinical Male Pelvic Trainer (CMPT) Mk 2 - Standard & Advanced

60950

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

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Patents granted: • US6336812 • EP099027 • DE69804793 • CA 2293585 • ZL98806331 • HK1023832 • 755575 Australia
Clinical Female Pelvic Trainer (CFPT) Mk 3 - Standard & Advanced

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

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.

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*Patents granted: US6336812 • EP099027 • DE69804793 • CA 2293585 • ZL98806331 • HK1023832 • 755575 Australia*
Our Breast Examination Trainer provides a highly realistic learning platform for acquiring the skills required to perform Clinical Breast Examination (CBE). Featuring 6 readily interchangeable and multi-positional pathologies, providing healthcare professionals with the tools to identify various complications and pathologies, including carcinomas, cysts, fibrocystic disease and fibroadenoma. Both Simulated Patient and bench top training can be used in alignment with healthcare professionals promoting best practice techniques to trainees and patients, or for any undergraduate programs running OSCEs.

**QUALITIES**

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

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

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

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

**SAFETY**
- Latex free

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

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

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

**WHAT’S INCLUDED**

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**OPTIONAL EXTRAS**
- 40209 Medium Carry Case
FEMALE EXAMINATION • BREAST

PROCEDURAL SKILLS
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 advance skills of suprapubic management and ultrasound guided insertion.

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

**Male Catheterisation Trainer**

60850

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

Replaceable and removable foreskin.

**Female Catheterisation Trainer**

60851

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

**Suprapubic Insertion Unit**

60852

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

Fits into 60850 & 60851.

The Catheterisation Trainer Range

Catheterisation Range

Male Catheterisation Trainer

60850

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

Replaceable and removable foreskin.

Female Catheterisation Trainer

60851

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

Suprapubic Insertion Unit

60852

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

Fits into 60850 & 60851.
**SKILLS**
- Correct handling of male and female anatomy
- Aseptic catheterisation technique
- Withdrawal of catheter
- Urinary catheterisation
- Suprapubic catheter management - Female module
- Suprapubic catheter insertion (blind and ultrasound guided)*
- Ultrasound bladder scanning on a full bladder*
- Fluid management

* 60852 Only

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

**QUALITIES**

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

**VERSATILITY**
- Easily interchangeable male, female and suprapubic catheterisation modules
- Removable foreskin

**SAFETY**
- Trainer is latex free (catheters provided contain latex)

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**OPTIONAL EXTRAS**

40209 Medium Carry Case
This range offers realistic, repeatable and cost effective training in the core skills of Lumbar Puncture and Epidural Anaesthesia for both palpation and ultrasound guided techniques.

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

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

Lumbar Puncture Model

61000

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

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

Advanced Epidural & Lumbar Puncture Model

61001

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

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

Ultrasound Epidural & Lumbar Puncture Model

61002

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

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

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

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

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

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

### SKILLS

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<td>Lumbar puncture</td>
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<td>Collect and measure CSF</td>
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<td>Obese option</td>
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* 61001 Only

#### WHAT’S INCLUDED

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<td>61022 Water Reservoir</td>
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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
CHEST TRAUMA MANAGEMENT

---

**PAD FEATURE COMPARISON**

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

**WHAT’S INCLUDED**

- **60231** Needle Decompression Pads (x2)
- **60232** Advanced Chest Drain Pads (x2)
- **60234** Standard Chest Drain Pads (x2)
- **60235** Chest Drain Rib Frame (Left)
- **60237** Chest Drain Rib Frame (Right)
- Chest Drain Lungs (x2)
- Chest Drain Diaphragms (x2)
- Chest Drain Ribs (x12)
- Chest Drain Pump: Respiratory Swing
- Chest Drain Pump: Needle Decompression
- Chest Drain Slotted Retaining Knobs
- Key with keyring
- Torso
- Carry case
Paracentesis Trainer

60100

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

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

QUALITIES

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

REALISM
• Realistic tissue and needle response

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

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

SAFETY
• Latex free

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

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

WHAT’S INCLUDED

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

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<td>00320</td>
<td>Epidermis for Injection Trainer (x2)</td>
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<td>Strap-on base plate</td>
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<tr>
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<td>Soft tissue tray with liner</td>
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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

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<td>Ultrasound Vascular Access Vein</td>
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<td></td>
<td>Base</td>
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<td>10ml syringe</td>
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Standard Venepuncture Arm

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

Bag & Stand Advanced Venepuncture Arm

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

Advanced Venepuncture Arm

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

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

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

QUALITIES

ANATOMY

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

KEY FEATURES

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

VERSATILITY

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

SAFETY

- Veins contain latex

CLEANING & CARE

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

WHAT’S INCLUDED

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OPTIONAL EXTRAS

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<td>00299</td>
<td>Arm Skin - Brown</td>
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<td>00300</td>
<td>Venepuncture Arm Harness</td>
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<tr>
<td>00301</td>
<td>Venepuncture Arm Carry Case</td>
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</table>
ACF Pad - Venepuncture

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

**SKILLS**

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

**QUALITIES**

**KEY FEATURES**

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

**VERSATILITY**

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

**SAFETY**

- Tough backing plate to prevent needlestick injuries
- Epidermis and veins contain latex

**CLEANING & CARE**

- Replaceable epidermis
- Washable using soap and water

**WHAT’S INCLUDED**

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<td>Epidermis for ACF Pad</td>
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</table>

Three Vein Pad - Venepuncture

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

**SKILLS**

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

**WHAT’S INCLUDED**

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<td>Vein for Three Vein Pad</td>
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<td>00170</td>
<td>Epidermis for Three Vein Pad</td>
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<tr>
<td>-</td>
<td>Pad base with strap</td>
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</table>

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

00280

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

SKILLS

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

QUALITIES

ANATOMY

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

KEY FEATURES

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

VERSATILITY

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

SAFETY

- Contains latex

WHAT’S INCLUDED

00280 Cutdown Pad

Mock Blood Giving Set

60651

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

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

QUALITIES

KEY FEATURES

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

VERSATILITY

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

WHAT’S INCLUDED

60652
- Mock Blood/Fluid Bag
  - Luer lock tube adapter
  - Metal stand with base

Mock Blood - Venous

00223

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

Mock Blood - Arterial

60653

250ml of synthetic solution made to the correct colour and viscosity of arterial blood.
LIMBS & THINGS WEBSITE

MORE IMAGES

IMPROVED SEARCH FUNCTION

WHAT'S INCLUDED

VIDEO OF PRODUCT IN USE

DOWNLOAD USER GUIDES & BROCHURES

limbsandthings.com
SPECIALIST SKILLS
SUTURE TUTOR PLUS™

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

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

Online, Video-based Course

STP-PRO-SUB

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

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

WHAT’S INCLUDED

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

CHOOSE YOUR PRODUCT

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

Hands-on Kit

STP-KIT

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

WHAT’S INCLUDED

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

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
Knot Tying Trainer

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

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

SKILLS

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

Double Layer Bowel

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

SKILLS

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

Professional Abdominal Opening & Closure Trainer (AOCT)

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

SKILLS

• Insertion of a veress needle
• Insertion of a trocar
• Hassen technique
• DPL techniques
• Incisions: linear, ellipse, flaps, shaped
• Subcuticular undermining
• Simple and advanced interrupted suturing techniques
• Subcuticular suturing
• Continuous suturing
• Stapling
• Use of adhesive strips
For the practice of skin lesion removal, local 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

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). Contains latex.

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

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

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

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

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

SAFETY
- Skin contains latex

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
- Latex free
- Wipe-clean surface

WHAT’S INCLUDED
- Retaining clips with sucker feet (x2)
- Retaining clips with attachment loops (x4)

50050 Skin pad jig
- Base

50054 BSS Soft Tissue Retaining Set
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**

**00041**

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

**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

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.

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

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 keratoses) for teaching superficial dermatological lesion removal techniques.

SKILLS
- Snip excision
- Shave excision
- Curettage

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

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

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

SAFETY
- Latex free
Minor Skin Procedures Pads

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

Pad dimensions: L 125mm x W 72mm

Product is latex free.

What's Included

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

Ingrowing Toenail Trainer

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

Skills

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

What's Included

- 80071 Toe Jig
- 80070 Toe Ends (x3)

Two Person Minor Surgery Pack

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

What's Included

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

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

**NEW**

80200  PROMPT Flex - Standard - Dark
80201  PROMPT Flex - PPH Module - Dark
80202  PROMPT Flex - Cervical Dilatation & Effacement Module - Dark
80203  PROMPT Flex - Caesarean Section Module - Dark
80206  PROMPT Flex - Advanced - Dark
80208  PROMPT Flex - Advanced - with Tablet - Dark
80212  PROMPT Flex - PostPartum Haemorrhage Kit - Dark
80221  PROMPT Flex - Standard Baby - Dark
80280  PROMPT Flex - Cervical Cerclage Module - Dark
Additional modules
fit either the Standard or the Advanced units allowing you to tailor your training needs.

Perineal Repair Trainer

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

See P. 50
PROMPT Flex - Standard

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

PROMPT Flex - Advanced

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

Tablet not included
Download app at limbsandthings.com

You may also be interested in:
80108 PROMPT Flex Advanced - with Tablet
80208 PROMPT Flex Advanced - with Tablet - Dark

QUALITIES

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

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

SAFETY
• Latex free

CLEANING & CARE
• Skin is washable using soap and water

SKILLS

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

WHAT’S INCLUDED

80120 Birthing Mother (+Upper Legs) ✓ ✓
80121 Standard Baby ✓ ×
80122FM Wireless Force Monitoring Baby × ✓
80123 Placenta ✓ ✓
80124 Abdomen for PROMPT Flex ✓ ✓
80125 Perineum and Birth Canal ✓ ✓
80130 Bed Straps ✓ ✓
10193 Lubricant ✓ ✓
01000 Wheeled Carry Case ✓ ✓
The PROMPT Flex Standard Baby has close to life range of articulation in the shoulder and hip joints, allowing an accurate experience with both delivering and handling the baby.

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

**QUALITIES**

**REALISM**
- Fully articulated baby with umbilical cord
- Full term infant size

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

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

**SAFETY**
- Latex free

Note that articulation improvements only affect the PROMPT Flex Standard Baby.
PROMPT Flex - Cervical 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)

- Assessment of and artificial rupture of membranes

- Assessment of presenting part - flexed, deflexed, brow, face, breech, caput and moulding and caput formation

WHAT’S INCLUDED

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

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

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

**QUALITIES**

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

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

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

**SAFETY**
- Latex free

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

**WHAT’S INCLUDED**

- 80104 Caesarean Section Surgical Pad (x2)
- 80138 Perineum
- 80170 Uterus for Caesarean Section Module
- 80171 Pre-incised Delivery Only Skin
- 80172 Surgical Skin
- 80173 Cervix for Caesarean Section Module
- 80175 Foam Uterus Support
- 80176 Full Dilatation Pelvic Insert
PROMPT Flex - PPH Module

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

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

SKILLS

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

WHAT'S INCLUDED

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

QUALITIES

REALISM

- Atonic uterus can simulate contraction on fundal massage

KEY FEATURES

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

VERSATILITY

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

ANATOMY

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

KEY FEATURES

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

VERSATILITY

- Can be quickly and easily fitted into the birthing mother

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PROMPT Flex - Compression Suture Uterus

This module allows for the training in performing a compression suture and ligating the uterine artery.

Used in conjunction with the **Pre-incised Delivery Skin**, it provides the ideal training platform for repeat practise of uterine compression suturing.

This product is based on concepts and collaboration with:

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

SKILLS

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

QUALITIES

ANATOMY

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

KEY FEATURES

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

VERSATILITY

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

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

To be used with the PROMPT Flex Standard or Advanced.

SKILLS

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

WHAT'S INCLUDED

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

PROMPT Flex - Cervical Cerclage Module

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

SKILLS

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

QUALITIES

REALISM

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

KEY FEATURES

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

WHAT'S INCLUDED

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

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

Midline Perineal Repair Trainer

The module reflects the current teaching practise in the USA, supporting the learning of 2nd degree midline perineal repair.

Mediolateral Perineal Repair Trainer

The module reflects the current teaching practise in the UK, supporting the learning of 2nd degree mediolateral perineal repair.

**QUALITIES**  (Common in all Perineal Repair Range)

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

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

**KEY FEATURES**
- Cost-effective as all layers can be sutured repeatedly
- Durable, long-lasting mediolateral perineal repair block and anal sphincter repair block
- Illustration pack representing each degree of perineal trauma to aid identification of key landmarks and internal anatomy

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

**SKILLS**  (Common in both Perineal Repair Trainers)

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

**OPTIONAL EXTRA**

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

2nd Degree Midline Perineal Repair Block (x2)

2nd Degree Mediolateral Perineal Repair Block (x2)

Unincised Perineal Repair Block (x2)

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

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

SKILLS

- 4th degree repair
- Recognition of internal anatomy
- Tissue Handling
- End-to-end repair of the external anal sphincter
- Overlap repair of the external anal sphincter
- Repair of the internal anal sphincter and anal mucosa

WHAT’S INCLUDED

- 61105 2nd Degree Midline Perineal Repair Block (x2)
- 61106 2nd Degree Mediolateral Perineal Repair Block (x2)
- 61107 Anal Sphincter Repair Block (x2)
- 61109 Perineal Repair Stand with Clamps
- 61110 Perineal Repair Block loading frame
- 61112 Perineal Repair Illustration Pack - Light
- 00293 Water Based Lubricant

OPTIONAL EXTRA

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

Episiotomy Trainer Module

SKILLS

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

QUALITIES

REALISM

- Realistic representation of tissue to represent a stretched perineum

KEY FEATURES

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

WHAT’S INCLUDED*

- 6113 Episiotomy Incision Pad (x2)
- 6114 Episiotomy Repair Tape (x24)
- 6115 Episiotomy Baby Head
- 61116 Episiotomy Illustration Pack - Light

* Perineal Repair Stand (61109) to be purchased separately
Surgical Female Pelvic Trainer (SFPT) Mk 2

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**

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

Patents granted
- US6336812 • EP099027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
**GYNÆCOLOGY**

**Gynae Dissection Pad**

50116

An intermediate laparoscopic technique trainer for gynaecological surgery. The round and broad ligaments, ureters and uterine artery are represented in 3 dimensions. To be used in conjunction with the 50151 Soft Tissue Retaining Set.

**SKILLS**

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

**QUALITIES**

**ANATOMY**

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

**REALISM**

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

**KEY FEATURES**

- Cost-effective, convenient and hygienic

**VERSATILITY**

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

**SAFETY**

- Skin and veins contain latex

**WHAT’S INCLUDED**

50116  Gynae Dissection Pad

---

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

**QUALITIES**

**ANATOMY**

- Represents normal anatomy as required for palpation purposes

**KEY FEATURES**

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

**SAFETY**

- Latex free

**WHAT’S INCLUDED**

30095  Foot & Ankle Needle Set
30101  Foot & Ankle Skin
70102  Foot & Ankle Musculature
BKS3860417  Joint and Soft Tissue Injection Book (6th Ed)
  - Foot and ankle base unit
  - Feedback console with batteries
  - Carry case
Elbow for Joint Injection

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

SKILLS

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

QUALITIES

REALISM
- Flexed right elbow, which rotates on the stand

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

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

SAFETY
- Skin contains latex

WHAT’S INCLUDED

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

Hand & Wrist for Joint Injection

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

SKILLS

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

QUALITIES

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

REALISM
- Articulated joints

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

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

SAFETY
- Skin contains latex

WHAT’S INCLUDED

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

70103

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

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

SKILLS

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

70104 Ultrasound Knee Module for Aspiration & Injection
70106 Fluid Bag and Stand
70107 Synovial Fluid (Including Syringe)
70108 Needle Set – 3 Green Needles, 1 Syringe, 1 Sharps Bin
BKS1360417 Joint and Soft Tissue Injection Book (6th Ed)
- Leg unit, including removable supports
- Carry case
JOINT INJECTION

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

70200

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

SKILLS

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

QUALITIES

REALISM

- Discrete muscle and skin layers for realistic needle feel

KEY FEATURES

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

VERSATILITY

- Each skin can withstand up to 500 injections per site (1 x spare shoulder skin supplied)
- Simple Bluetooth connection between app and trainer
- Requires only a standard needle (supplied)
- Batteries (2 x AA supplied) last for up to 500 hours

SAFETY

- Latex free

WHAT’S INCLUDED

70212 Shoulder Module - Palpation Guided
70210 Shoulder Skin (x1 spare)
70215 Shoulder Torso
70108 Needle Set
  - Android Tablet
  - Elbow
  - AA Batteries (x2)
  - Carry Case

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

**70202**

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

**SKILLS**

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

**QUALITIES**

**REALISM**

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

**KEY FEATURES**

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

**VERSATILITY**

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

**SAFETY**

- Latex free

**WHAT’S INCLUDED**

- 70213 Shoulder Module - Ultrasound Guided
- 70215 Shoulder Torso
- 70217 Ultrasound Shoulder Filling Kit
- 70108 Needle Set
- 70022 Synovial Fluid (250ml)
  - Elbow
  - Carry Case
For securing synthetic soft tissue components used in intermediate surgical training and laparoscopic trainers.

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

Large Surgical Dissection Pad

50114

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

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

Common features for both Large & Small Surgical Dissection Pads

SKILLS

• Incision
• Stapling
• Ligation
• Suturing
• Mobilisation
• Dissection
• Division

QUALITIES

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

VERSATILITY
• Cost-effective and extremely convenient when compared with animal tissue

SAFETY
• Veins contain latex

Small Surgical Dissection Pad

50118

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

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

Contains 2 types of vessel: arterial and bile.

Common features for both Large & Small Surgical Dissection Pads

SKILLS

• Incision
• Stapling
• Ligation
• Suturing
• Mobilisation
• Dissection
• Division

QUALITIES

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

VERSATILITY
• Cost-effective and extremely convenient when compared with animal tissue

SAFETY
• Veins contain latex

Soft Tissue Retaining Set

50151

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

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

WHAT’S INCLUDED

- 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
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.

FLS Trainer Box with TV Camera

Visit fls-products.com for more information about the FLS Trainer System

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.

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

Visit fls-products.com for more information about the FLS Trainer System

Note that users must provide their own TV screen
**WHAT’S INCLUDED**

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<tr>
<th>Item</th>
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<th>50304</th>
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<td>Camera - TV (with lead)</td>
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<td>Light Strip</td>
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<tr>
<td>Power Cable</td>
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<tr>
<td>- FLS Approved Instrument Kit</td>
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**OPTIONAL**

**FLS TASK 1 PEG TRANSFER**

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

**FLS TASK 2 PRECISION CUTTING**

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

**FLS TASK 3 LIGATING LOOP**

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

**FLS TASK 4 & 5 KNOT TYING**

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

**INSTRUMENTS - FLS APPROVED**

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

* Not for animate use, not sterile, for training purposes only
Vermiform Appendix

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

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

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

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

**QUALITIES**

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

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

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

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

**SAFETY**
- Contains latex

Patents granted
- US6336812 • EP099037 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
Gall Bladders

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

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

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

**QUALITIES**

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

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

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

**SAFETY**
- Contains latex

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**Patents granted**
- US6336812 • EP0990027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
SONON
Ultrasound Imaging System

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

**HC300C**
**CONVEX**

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

**HC300L**
**LINEAR**

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

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

**QUALITIES**

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

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

**WHAT’S INCLUDED**
- SONON 300C or SONON 300L
- Battery pack
- Battery charger
- Charger adaptor
- Main adaptor
- User manual book
- Quick guide

**Tablet not included**
AirSim Advance X

TCAA91100X

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

AirSim Combo X

TCCTC91100X

Combines the uniquely constructed AirSim® airway with the enhanced addition of tracheal rings, simulated cricoid and laryngeal cartilages.

QUALITIES

REALISM

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

KEY FEATURES

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

SKILLS

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

WHAT’S INCLUDED

- 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.

TCTCRIC1
TruBaby X provides a complete solution for paediatric clinical skills training.

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

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

QUALITIES

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

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

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

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

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<td>- USB pen drive user manual</td>
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<td>- Bottle of TruCorp lubrication (100 ml)</td>
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<td>- Bottle of artificial blood concentrate (250ml)</td>
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<td>- Syringes with tubing and quick fit connectors (x2)</td>
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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

The 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® 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, nasotracheal tubes and feeding tubes
- Central catheter insertion, securing, dressing & maintenance
- IV and PICC line insertion, securing, dressing & maintenance
- Umbilical catheterisation
- Venepuncture including heparinisation and fluid infusion

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

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

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

WHAT’S INCLUDED
- Infant manikin
- Fluid bag and tubing
- Simulated blood
- Nappy
- Carry case
Chester Chest™ with New Standard Arm

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

VTA0406 Real Chest Port (IVAD)
VTA0408 Dual Lumen 5FR PICC Catheter
VTA0407 9FR Tunneled Central Catheter
VTA0405 Chest Tissue Flap
VTA0420/0430/0440 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

VTA0601 Arm Vein Tubing Set
VTA0602 Body Vein Tubing Set
VTA0603 Arm Skin
VTA0604 Body Skin
VTA0606 Rib
VTA0607 Muscle Tissue
VTA0608 Superior Vena Cava Viewing Vial
VTA0611 500ml Fluid Bag
  - Carry case
Freddie Fistula™ Skills Trainer

VTA0230

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

SKILLS

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

QUALITIES

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

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

CLEANING & CARE
- Skin is washable using soap and water

WHAT’S INCLUDED

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

‘Pat’ Pressure Injury Staging Model™

VTA0980

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

SKILLS

- Wound identification and assessment
- Routine cleansing
- Dressing techniques

QUALITIES

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

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

CLEANING & CARE
- Skin is washable using soap and water

WHAT’S INCLUDED

- Pat Pressure Injury Staging Model
- Legend
Seymour II Wound Care Model™

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

**QUALITIES**

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

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

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

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

‘Wilma’ Wound Foot™

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

**QUALITIES**

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

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

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

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

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

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

Nursing is at the heart of healthcare, and these products reflect the core simulation training needs required for undergraduate and postgraduate nursing.

MALE RECTAL EXAMINATION

PELVIC EXAMINATION

ABDOMINAL EXAMINATION

BREAST EXAMINATION

CATHETERISATION

VENEPUNCTURE

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

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

It’s important students feel confident taking the Objective Structured Clinical Examination. These products are designed to train and test clinical skill performance for the OSCE.

MALE RECTAL EXAMINATION

ABDOMINAL EXAMINATION

BREAST EXAMINATION

PELVIC EXAMINATION

VENEPUNCTURE

LUMBAR PUNCTURE & EPIDURAL

CATHETERISATION
For training in ultrasound guided procedures, the range is made of materials similar to human tissue, allowing trainees to practice advanced visualising or injecting techniques while using ultrasound imaging for accuracy.
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**Patents applied for**

- 11-503978: Japan • 0215051.4: UK

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