2017 Catalogue

Learning has never been more lifelike
Limbs & Things was established in Bristol in 1990 by medical artist Margot Cooper to design and manufacture medical training models.

Margot’s vision was to enable healthcare practitioners to become more competent and confident professionals, with the ultimate aim of improving patient outcomes and reducing medical error.

Our manufacturing and corporate head office in Bristol has continued to grow over the years, along with our range of new and innovative products launched each year.

Today, we have offices in the USA, Australia and Sweden as well as partnerships with our distributors across the globe.

Thank you for choosing Limbs & Things.
The Limbs & Things Story

Having trained as a medical illustrator, Margot Cooper establishes Limbs & Things in Bristol to design and manufacture medical training models.

1990

Initial products include dynamic anatomical foot & spine, resectable uterus simulator and shoulder for joint injection.

'93. First patent is granted: Epidermis & Jig

'94. First Dr Frank H Netter Award is received

'95. Distributor network is engaged

Late 90's

'Millennium Award for the Pulsatile Heart model: Best of British design, creativity and innovation

'97. Major surgical models for courses at Royal College of Surgeons, England

'98. First use of CAD in house for Chest Drain model
'06.

PROMPT Birthing Simulator and training courses launched with spectacular results

'08.

Advanced Venepuncture Arm is launched

'09.

Second Dr Frank H Netter Award for Special Contributions to Medical Education for the PROMPT Birthing Simulator

Today

'15.

Queen's Award for Enterprise Innovation

'06.

Launch of PROMPT Flex with Bluetooth Force Monitoring and Scenario Training

'16.

Growing Product Ranges:
- Hybrid Simulation
- Nurse Training
- Undergraduate Medicine
- Ultrasound

'16.

Launch of Knee Aspiration & Injection Trainer with Ultrasound Capability

Product range rapidly expands to include some of our best-selling products today...
What’s new - 2017

The latest launches from Limbs & Things

Abdominal Examination Trainer

For practising the palpation, auscultation and percussion elements of abdominal examination

See Page 16
Knee Aspiration & Injection Trainer with Ultrasound Capability

For aspiration of synovial fluid and joint injection from both the lateral and medial aspects, using ultrasound-guidance or palpation

See Page 50

New Skin Tone for Venepuncture Range

We have developed a new skin colour for use with our Venepuncture Arms, for a wide appeal across a number of markets

See Page 25
### Physical Examination Skills

*Products to aid in the development of clinical examination skills*

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### Procedural Skills

*Products designed for staged training in clinical procedures*

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### Specialist Skills

*Products for specialist and surgical skills training*

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Physical Examination Skills
Clinical Female Pelvic Trainer (CFPT) Mk 3 - Standard & Advanced

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

In 2014 the 7 uterine modules included with the Advanced model were used in a study by gynaecologists and doctors. Participants performed speculum and bi-manual examinations. The modules were found to be realistic and have construct validity.1


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

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
7 modules available

Images above are for information purposes & show a simplified representation of anatomy within the CFPT Modules.
Breast Examination Trainer - Standard, Advanced & Basic

**40200** Standard
**40201** Advanced
**40202** Basic

Simulated Patient

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 for any undergraduate programs running OSCEs or healthcare professionals promoting best practice techniques to trainees and patients.

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

Breasts can be worn by a simulated patient (male or female)

**Product Qualities**

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

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

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

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

**Safety**
- Latex free

**Cleaning & Care**
- Skin surface is washable using soap and water

**Skills**

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

**Optional Extras**

- **40209** Breast Examination Carry Case

**Patents granted**
- US6336812 • EP099027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
Examination & Diagnostic Breast Trainer

Our realistic, life-size breast trainer is the ideal platform for training in the examination procedures and diagnostic techniques required for Clinical Breast Examination (CBE).

Skills
• Recognised clinical breast examination technique
• Diagnosis of pathologies:
  - Carcinoma
  - Fibroadenoma
• Aspiration of a cyst
• Self Breast Examination (SBE)

Product Qualities

Anatomy
– Simulated carcinoma and fibroadenoma
– Benign cyst for aspiration

Realism
– Breast skin is warm to the touch
– Responds to palpation in a lifelike way

Key Features
– Variable cyst volume

Versatility
– Lightweight and compact base allows for:
  - Self-examination
  - Bench top presentation

Safety
– Contains latex

Cleaning & Care
– Skin surface is washable using soap and water

Male Examination • Rectal
Rectal Examination Trainer Mk 2

Our model comprises a realistic representation of the buttocks, anus and rectum enabling the practice of diagnostic skills associated with rectal examination.

Skills
• Digital prostate and rectal examination
• Proctoscope insertion and use
• Professional-to-patient communication

Product Qualities

Anatomy
– Buttocks, anus and rectum
– 2 interchangeable perineums:
  - Normal for prostate examination
  - Pathology featuring polyp and carcinoma
– 5 interchangeable prostates:
  - Normal
  - Bilateral benign
  - Unilateral benign
  - Bilateral carcinoma
  - Unilateral carcinoma

Realism
– The prostate is hidden and cannot be seen by the trainee
– Realistic sphincter tone
– Palpable sacrum

Versatility
– Prostates can be easily and quickly changed
– Trainer can also be presented in ‘semi-standing’ position

Safety
– Latex free

Cleaning & Care
– Washable using soap and water
Clinical Male Pelvic Trainer (CMPT) Mk 2 - Standard & Advanced

Our anatomically accurate trainer is 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
- Guys Hospital, London, UK
- Southmead Hospital, Bristol, UK
- University of Southampton, UK

Anatomically accurate Soft tissue inserts can be removed and replaced
Pelvis has realistic anatomy modelled from real bones
Realistic training experience

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

Product 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):
- Testicular tumour and penile cancer
- Epididymal cyst
- Varicocele
- Orchitis / Epididymo-orchitis
- Hydrocele
- 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
7 modules available

- **Module 1**: Normal
- **Module 2**: Varicocele
- **Module 3**: Tumours and Penile Cancer
- **Module 4**: Epididymal Cysts
- **Module 5**: Hydrocele
- **Module 6**: Orchitis/Epididymo-orchitis
- **Module 7**: Indirect Inguinal Hernia

Images above are for information purposes & show a simplified representation of anatomy within the CMPT Modules.
Abdominal Examination

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. Ideal for OSCE preparation and assessment. With interchangeable organs of varying sizes, and an integral MP3 player providing realistic sounds, the trainer provides the ability to differentiate normal from abnormal pathology.

Product Anatomy & Contents

* CAD Imagery

- 2 Interchangeable Spleens
- 2 Enlarged Kidneys
- 3 Interchangeable Livers
- Set of 6 Abdominal Pathologies
- Ascites Bag
- Distension Set
- Gaseous Distension Bag
- Distension Foam Insert
- Normal Aorta
- Aneurysmal Aorta
- Distended Bladder
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Skills

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

Product Qualities

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

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
- Weight of model is within male and female health and safety limits for lifting to chest height

Cleaning & Care

- Skin surface is washable using soap and water
Take a look at our new videos

Visit the website or YouTube channel

limbsandthings.com

youtube.com/limbsandthings
Procedural Skills
Our Advanced Catheterisation Trainer facilitates the teaching of urethral and supra-pubic catheterisation, as well as how to demonstrate self-catheterisation to patients (when using the optional Self Catheterisation Stand). It has interchangeable accurate male and female anatomy, and both sets of genitalia are realistically soft and pliable. The feel of the catheter passing along the urethra into the bladder corresponds closely to real life.

Skills
- Correct handling of male and female anatomy
- Aseptic catheterisation technique
- Catheter placement: accepts catheters from 14-16 French (male) and 12-16 French (female)
- Fluid management
- Withdrawal of catheter
- Intermittent Self Catheterisation (ISC) when used with the optional Self Catheterisation Stand (60167)
- Suprapubic catheter insertion and catheter management using Suprapubic Bung

Product Qualities

Anatomy
- Male anatomy: realistic meatus, flaccid penis and replaceable foreskin
- Female anatomy: partable labia with realistic urethral meatus and vaginal opening

Realism
- Supple urethra and resistant sphincter providing realistic response

Key Features
- 1 litre fluid bag on stand provides pressurised fluid flow
- Syringe supplied with water-based lubricant to simulate proprietary local anaesthetic gel
- Non-drip valve
- Reusable double-sleeve catheter packaging is supplied for teaching aseptic catheter handling

Versatility
- Easily interchangeable male and female catheterisation units

Safety
- Product is latex free (catheters provided contain latex)

Cleaning & Care
- Skin surface is washable using soap and water
Advanced Catheterisation Trainers - Male & Female

The Advanced Male and Female Catheterisation Trainers are available separately. Both are supplied with a suprapubic site and bung.

Basic Catheterisation Trainers - Value Set

A cost effective Value Set containing basic versions of each of the Male and Female Catheterisation Trainers. These do not contain the suprapubic bungs.

Suprapubic Catheterisation Management Bung

Set of 2 bungs, to be used with Limbs & Things Catheterisation Trainer Range. This Pre-Ported Suprapubic Bung allows for the management of catheters after surgical procedure has taken place.
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.

Skills

- Needle decompression of tension pneumothorax
- 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

Product 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

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<td>Use with liquids</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Effusion</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Haemothorax simulation</td>
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<td>✔️</td>
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<tr>
<td>Pleural layer</td>
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<td>Seldinger technique</td>
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<td>Can be sutured</td>
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<td>Needle insertion</td>
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<td>Guidewire insertion</td>
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<tr>
<td>Drain tube insertion</td>
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<td>Use with adhesive dressings</td>
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<tr>
<td>Shows respiratory swing</td>
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<tr>
<td>Latex free</td>
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Chest Trauma Management

- 60231 Needle Decompression Pads (x2)
- 60232 Advanced Chest Drain Pads (x2)
- 60234 Standard Chest Drain Pads (x2)
- 60240 Chest Drain Ribs (x12)
- 60235 Chest Drain Rib Frame (Left)

- 60237 Chest Drain Rib Frame (Right)
- 60238 Chest Drain Lung
- 60239 Chest Drain Diaphragm
- Torso
- Carry case

**Recognition of pleural effusion & ultrasonic landmarks:** chest wall, lung & diaphragmatic structure

**Reservoirs can be filled with fluid to represent pleural effusion**

**Ultrasound guided needle insertion (Seldinger type)**

**Blunt dissection with drain tube insertion**

**Suitable for supine, sitting or leaning forwards positions**

**Needle only needle decompression**

**Needle, syringe & saline solution needle decompression**
The Standard Venepuncture Arm provides the ideal platform for practising the skills related to venepuncture and IV cannulation.

The bag and 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. Little technical knowledge is required for setup and maintenance.

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

Venepuncture Arms
(Common features for all Venepuncture Arms)

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

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

---

**Optional Extras & Consumables**

(Available for all Venepuncture Arms)

- 00291 Arm Skin - Light
- 00299 Arm Skin - Brown
- 00300 Venepuncture Arm Harness
- 00301 Venepuncture Arm Carry Case

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<th>Standard</th>
<th>Bag &amp; Stand Adv</th>
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<td>00295 Advanced Venepuncture Vein Module</td>
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<td>00333 Standard Venepuncture Arm Veins</td>
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<td>00303 Refill Bottle</td>
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<td>Water-based lubricant pack (x3)</td>
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<td>Arm shell</td>
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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

**Product 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, re-chargeable 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)

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

**Cleaning & Care**
- Replaceable epidermis
- Washable using soap and water

Three Vein Pad - Venepuncture

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

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

Extended ACF Pad - Venepuncture

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

**Product Qualities**

Anatomy
- 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
- Skin and veins contain latex

---

**Mock Blood Giving Set**

A 1 litre blood bag with luer lock connector tube and stand.

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

**Product Qualities**

Key Features
- Quick and easy to assemble
- Easy storage - collapsible stand
- Bag holds up to 500ml
- 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)
  - Arterial Procedures Kit (60600)
  - Vermiform Appendix (50122, 50123 and 50124)
  - Gall Bladders (50127, 50128, 50129 and 50132)
  - Abdominal Aortic Aneurysm (AAA) Trainer (60610)
  - Femoro Peroneal Anastomosis (FA) Trainer (60640)
  - Femoral Popliteal Bypass (FPB) Trainer (60630)

---

**Mock Blood - Venous**

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

---

**Mock Blood - Arterial**

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

**Injection Trainer**

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

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

**Skills**

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

**Product 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

---

**Central Line Management**

**Ultrasound Vascular Access Trainer**

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

**Product 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

---

**00310 Skin Pad & Muscle Block**

**00320 Epidermis for Injection Trainer (x2)**

**60531 Ultrasound Vascular Access Slab**

**Base**

**10ml Syringe**
Specialist Skills
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
- Choose from PRO or LITE versions
- Purchase 1 year subscription with or without kit

*Suture Tutor Plus™* is a complete training package to help medical students and healthcare professionals master fundamental hands-on skills relating to instrument handling, knot tying and suturing.

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

**Online, Video-based Course**

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

**Hands-on Kit**

A Hands-on Kit including a professional skin pad, 10 sutures and all necessary instruments to allow repeated practice of the techniques demonstrated in the course.
Online, Video-based Course

The course comprises 11 skills modules, with over 300 short videos and more than 40 step-by-step tutorials. You can choose whether to purchase the full course (PRO), or the 6 core modules only (LITE):

- 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

PRO | LITE
--- | ---
✓ | ✓
✓ | ✓
✓ | ✓
✓ | ✓
✓ | ✓
✓ | ✓
✓ | ✓
✗ | ✓
✓ | ✓
✓ | ✓
✓ | ✓

Hands-on Kit

This Hands-on Kit contains the essentials for practising suturing, knot tying and instrument handling. Packaged in a robust, rigid plastic box, it is highly portable, can be quickly and safely packed and the lid may also double as a temporary sharps bin.

- 00092 Large, Light Professional Skin Pad Mk 2
- 00550 Skin Pad Jig Mk 3
- 00555 Basic Knot-tying Kit
- INSO2000 Pack of 10 Sutures (non-sterile)
- Scalpel
- Dissecting forceps
- Scissors
- Needle holder

Choose your Product

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Institutional Licences

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

Learn more at limbslearningonline.com
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

**Anatomy**
- 2 perioperative openings represented by:
  - Small, shallow fixed cylinder for tying in a small opening
  - Large, deep removable cylinder, reversible for angled abdominal and gynaecological depth tying

**Realism**
- Unique magnetic system to represent tissue strength
- Parallel knotting tubes are elastic for a realistic tissue response

**Key Features**
- Light and compact
- Cylinders are transparent to allow the trainer to observe and assess trainee competence

**Product Qualities**

1. **Tying at depth: finger tie**
2. **Hand tie & instrument tie**
3. **Tying at depth: large aperture (abdominal)**

- **50164** Two Coloured Cord (x3)
- **50158** Knotting Tube (x3)
- Base with cylinders
- Knot tying tension hooks (x3)
Basic Surgical Skills

**BSS Day 1 Kit (5th Ed)**

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

**Safety:** Contains latex

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

**BSS Day 2 Kit (5th Ed)**

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

**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

**Safety:** Contains latex

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

**BSS Day 1 Refill Pack (5th Ed)**

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

**BSS Day 2 Refill Pack (5th Ed)**

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

**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 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

**Safety**
- Contains latex

---

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
- Traumatic wound debridement
- Foreign body removal

**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.

**Realism**
- Non-slip heavyweight base

**Key Features**
- Smooth top surface allows for secure fixing of soft tissue products using supplied Soft Tissue Retaining Set

**Safety**
- Latex free

**Cleaning & Care**
- Wipe-clean surface

---

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

**50047 BSS Traumatic wound**
- Bag of simulated foreign bodies

**50051 BSS Surgical Skills Board**
- Skin pad jig
- Base
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

**Product Qualities**

**Realism**
- Realistic tissue response
- Will withstand a fluid flush test to demonstrate integrity of the anastomosis

**Versatility**
- Light and compact
- Mobile when held in Soft Tissue Retaining Set (50151)

**Safety**
- Latex free
- Non-biological material: no hygiene issues or problems

---

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 trochar
- 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

**Product Qualities**

**Anatomy**
- 5 layered system represents the abdominal wall anatomy: epidermis, dermis, fat, linea alba, peritoneum

**Realism**
- Abdominal wall is held under tension by a balloon which represents the intestines

**Safety**
- Contains latex

---

- **50061** Double Layer Bowel 30mm Outside Diameter
- **50065** Double Layer Bowel 20mm Outside Diameter
- **60430** Professional AOCT Pad:  
  - Peritoneums (x2)
  - Balloons (x5)
- **AOCT base**
This jig supports the entire range of Limbs & Things synthetic soft tissue pads. Can be strapped onto the limbs or body of a Simulated Patient when used with the optional strap (00510).

**Product 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

**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.

**Wound Closure Pad**

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

**Product 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
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

**Product Qualities**

**Realism**
- Realistic tissue response and soft skin 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

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

**Product Qualities**

**Realism**
- 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

**Product Qualities**

**Anatomy**
- 3 layer skin: epidermis, dermis and subdermal layer
- Contains 2 Cysts

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

**Key Features**
- Pad dimensions: 125mm x 72mm

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

**Safety**
- Latex free

---

**Curettage, Snip & Shave Excision Pad**

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

**Skills**
- Snip excision
- Shave excision
- Curettage

**Product 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.

- 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.

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

- 80071 Toe Jig
- 80070 Toe Ends (x3)

**Two Person Minor Surgery Pack**

Devised 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. Toe contains latex.

- 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

**Diagnostic Face with Lesions**

An invaluable aid for teaching the recognition of a wide variety of skin lesions. Provides a basis for the discussion of suitable procedures for their treatment, and the planning of skin flaps and incisions. Designed for diagnosis and planning only. Use individual Limbs & Things skin pads for practising operations. Product contains latex.

- 30023 ‘No-trace’ Marker
- Face with lesions on a rigid plastic base
An intermediate laparoscopic technique trainer for gynaecological surgery. The round and broad ligaments, ureters and uterine artery are represented in 3 dimensions.

**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

**Product 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

For practising the removal of an ectopic pregnancy using diathermy, laser, other monopolar electrocautery techniques and also standard instruments. Recommended as the ‘Gold Standard’ for training following research conducted by 2 UK hospitals.

**Skills**
- Surgical opening of the fallopian tube (salpingostomy)
- Surgical excision of a fallopian tube (salpingectomy)
- Removal of an ectopic pregnancy

**Product Qualities**

**Realism**
- Provides a realistic response with instruments

**Key Features**
- 1 ‘sheet’ containing 3 ectopic pregnancies

**Safety**
- Latex free
- Resectable product
- Monopolar only

**Cleaning & Care**
- 3 months shelf life from date of invoice

• [Gynae Dissection Pad](#) 50116

• [Ectopic Pregnancy](#) 60315
Surgical Female Pelvic Trainer (SFPT) Mk 2
60251

The Surgical Female Pelvic Trainer (SFPT) is 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.

**Product Qualities**

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

**Realism**
- Insufflation of abdomen is represented

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

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

**Safety**
- Capsule in uterus contains latex

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

**Consumables**
- 60256 SFPT Uterus (x5)
- 60257 SFPT Uterus (x10)

**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

**Realism**
- Insufflation of abdomen is represented

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

**Safety**
- Capsule in uterus contains latex

**Approximate Supply Lead Time**
- 60251 SFPT Mk 2 Abdomen
- 60252 SFPT Mk 2 Surgical Uterus
- 60253 SFPT Mk 2 Abdominal Skin Pad
- 60254 SFPT Mk 2 Perineum
- 60255 SFPT Mk 2 Bowel
- 00020 Venous Blood Starter Kit
- SFPT Mock Blood Kit (includes reservoir and pump)
- Blunt dispensing needle and syringe
- Bed securing strap

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

**Consumables**
- 60256 SFPT Uterus (x5)
- 60257 SFPT Uterus (x10)
PROMPT Flex Range

PROMPT Flex Range has become an integral part of many birthing training courses around the world, suitable for all levels of teaching, learning and skill maintenance.

Launched in 2015 the Standard and Advanced units offer closer to life anatomy combined with flexibility to train on routine and a number of difficult birthing management scenarios.

Additional modules which fit either the Standard or the Advanced units allow your training to be tailored to your training needs and include PPH, C-Section and Cervical Dilatation & Effacement.

PROMPT Flex - Standard

With improved anatomy, durability and functionality the new PROMPT Flex Standard has a modular design 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

In addition to the functionality of the Standard, the Advanced unit includes both Bluetooth Force Monitoring and Scenario Training.

Traction applied to the baby’s head can be recorded during a shoulder dystocia drill, with the force applied visually represented.

The multiple scenario training function allows for monitoring and recording of actions taken during birthing including interventions made and time to deliver the baby. Downloadable PDFs create a record of the trainee’s actions and allow for factual debriefing post the scenario.

Download simulator software at limbsandthings.com
**Product 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

**Realism**
- Suitable for use with Simulated Patient

**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:
  - PPH management
  - C-section
  - Cervical dilation and effacement
- 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 comparison**

- 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
- Recording of scenarios & force monitoring

---

**Optional Extras & Consumables**

- 80110 PROMPT Flex - Lower Limbs
- 00020 Concentrated Venous Blood - Starter Pack (x2)
- 10193 PROMPT Birthing Lubricant (250ml)

---

**Additional Modules**

<table>
<thead>
<tr>
<th>Module</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cervical Dilatation &amp; Effacement</td>
<td>80102</td>
</tr>
<tr>
<td>Caesarean Section</td>
<td>80103</td>
</tr>
<tr>
<td>Post Partum Haemorrhage</td>
<td>80101</td>
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</tbody>
</table>

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**Skills comparison**

- 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
- Recording of scenarios & force monitoring

---

**Optional Extras & Consumables**

- 80110 PROMPT Flex - Lower Limbs
- 00020 Concentrated Venous Blood - Starter Pack (x2)
- 10193 PROMPT Birthing Lubricant (250ml)
PROMPT Flex - Cervical Dilatation & Effacement Module

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

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)
  - Foetal 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

Product Qualities

Anatomy
– 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

- 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
PROMPT Flex - Caesarean Section Module

This module allows training in performing a transverse incision, (both Pfannenstiel and Joel-Cohen), allowing for the layers to be sutured as well as in-situ repair of the uterine wall. Delivering a difficult baby with an impacted head or a transverse lie can also be practised.

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

Product Qualities

Anatomy
- Surgical pad has following anatomical layers: skin, fat, superficial epigastric vessels, rectus sheath, rectus muscle, parietal peritoneum, visceral peritoneum, bladder, muscular uterine wall, amniotic membrane

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

• 80103 Simulated Patient
• 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.

Skills
• Management of post-partum 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

Product 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

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

PROMPT Flex - Lower Limbs

A pair of lower legs with knee joint interface for extended realism when running a shoulder dystocia drill or when using a Simulated Patient.

To be used with PROMPT Flex Standard or Advanced.
Keele & Staffs Episiotomy Repair Trainer

A 3 stage training system for teaching episiotomy, perineal suturing techniques, and repair of episiotomy and second degree tears.

Developed in collaboration with:
- Professor Christine Kettle, Professor of Women’s Health, University Hospital of North Staffordshire and Staffordshire University (UK).
- Professor Khaled Ismail, Senior Lecturer and Consultant Obstetrician and Gynaecologist, Keele Medical School and University Hospital of North Staffordshire (UK).

Stage 1 Episiotomy
A simplified model for teaching safe methods of episiotomy.
- 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 medio-lateral (or midline) episiotomy
- Use of instruments

Stage 2 Perineal Repair Techniques
The Episiotomy and Perineal Repair Pad prompts trainees to learn to suture on 2 planes, one of which has the spatial challenges which exist when suturing within the vagina. Comprises epidermis, dermal and subdermal layer.
- Suturing in 2 planes: inside vagina and on perineum
- Practice of suture techniques: continuous, subcuticular, knot tying

Stage 3 Perineal Repair Procedures
For the practice of episiotomy and second degree tear repair.
- Tissue layer recognition and handling
- Vaginal mucosal suturing
- Deep muscle suturing
- Subcuticular suturing
- Identification and management of perineal tears
- Enables digital rectal examination before and after repair

Realism
- Realistic representation of tissue to represent a stretched perineum

Key Features
- Baby head provides a realistic look and feel providing landmarks and appropriate tactile response when inserting fingers to guard the baby’s head

Realism
- Soft skin with a similar drag and strength to human skin
- Epidermis and dermis have a realistic retention of suture

Key Features
- Representation of the anus printed on pad
- Representation of the hymenal remnant printed on pad to assist in assessment of suturing techniques

Anatomy
- Perineal skin
- Superficial muscle structure and relevant layer for suturing

Key Features
- Cost effective: all layers can be sutured repeatedly
- Each Procedure Block presents 3 repair sites (left lateral is pre-incised, with both midline and right lateral uncut)

- 60451 Episiotomy Incision Pad (x6)
- 60452 Episiotomy & Perineal Repair Pad (x2)
- 60453 Episiotomy & Perineal Repair Block
- 60454 Perineal Repair Perineum
- 60455 Perineal Repair Techniques Jig
- 60456 Perineal Repair Base & Clip
- 60457 Keele & Staffs Baby Head
- Bench top clamps (x2) • Carry case
Episiotomy Trainer

60225

For the practice and repair of episiotomy, and repair of perineal lacerations.

Skills

- Performing an episiotomy
- Tissue layer identification and handling
- Deep musculature suturing
- Subcuticular suturing
- Superficial suturing

Product Qualities

Realism
- Full procedure can be carried out
- Perineum can be distended to replicate delivery
- Perineum, vagina and bowel are represented by a replaceable soft tissue pad
- Soft tissue pad contains superficial muscle structure and relevant layers for suturing

Key Features
- Cost effective: all layers can be sutured repeatedly
- Clamps stabilise the trainer during use

Versatility
- Episiotomy or laceration can be sited to the left, right or directly towards the anus

Safety
- Episiotomy pad contains latex

Cleaning & Care
- Skin surface is washable using soap and water

Product Qualities

Anatomy
- Perineal skin, external sphincter, internal sphincter, mucosa and muscle tissue

Realism
- All essential layers of tissue can accept sutures

Key Features
- Durable, long-lasting perineum and frame
- Each replaceable Anal Sphincter Block presents 2 repair sites (1 site is preincised, the other is uncut)

Versatility
- Quick and easy to prepare/replace during courses
- Clamps provided to secure trainer to bench top
- Compact and portable

Safety
- Contains latex

- 60229 Anal Sphincter Perineum
- 60228 Anal Sphincter Block
- Anal sphincter block clip
- Base
- Bench top clamps (x2)
- Carry case

Sultan Anal Sphincter Trainer

60227

For practising the techniques associated with the repair of the internal and external sphincter (third degree tear). Developed in collaboration with Mr Abdul Sultan, Consultant Obstetrician and Gynaecologist, Croydon University Hospital (UK).

Skills

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

Product Qualities

Anatomy
- Perineal skin, external sphincter, internal sphincter, mucosa and muscle tissue

Realism
- Full procedure can be carried out
- Perineum can be distended to replicate delivery
- Perineum, vagina and bowel are represented by a replaceable soft tissue pad
- Soft tissue pad contains superficial muscle structure and relevant layers for suturing

Key Features
- Cost effective: all layers can be sutured repeatedly
- Clamps stabilise the trainer during use

Versatility
- Episiotomy or laceration can be sited to the left, right or directly towards the anus

Safety
- Episiotomy pad contains latex

Cleaning & Care
- Skin surface is washable using soap and water

- 60226 Episiotomy Pad
- Base
- Clamps (x2)
Breastmilk Hand Expression Trainer

The technique of hand expression mimics the natural stimulation of breast milk during feeding. There are 2 stages to this process:
- The oxytocin reflex (milk ejection or let down reflex)
- Compression of the lactiferous sinuses

**Product Qualities**

**Realism**
- The soft foam breast is realistic in shape, texture and proportion, and is warm to the touch

**Key Features**
- Can be presented in 2 ways: freestanding or held against the body

**Versatility**
- The model incorporates 4 ‘milk’ reservoirs. These mimic the 15 to 20 lactiferous sinuses of the normal breast. Squeezing the nipple alone does not produce milk

**Safety**
- Skin contains latex

**Cleaning & Care**
- Washable using soap and water

**Skills**

- The technique of hand expression mimics the natural stimulation of breast milk during feeding. There are 2 stages to this process:
  - The oxytocin reflex (milk ejection or let down reflex)
  - Compression of the lactiferous sinuses

**Cleaning & Care**

- 40104  Simulated Breast Milk (500ml)
- 40105  Cleaning Pump
- Breastmilk hand expression trainer

Developed for teaching the techniques for hand expression of breast milk, the trainer was designed in conjunction with the UNICEF UK Baby Friendly Initiative, and may be particularly useful for staff training in facilities working towards Baby Friendly accreditation.

Ideal as both a teaching and learning tool for midwives, health visitors and other health care practitioners.
Knee Aspiration & Injection Trainer with Ultrasound Capability

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

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

**Skills**

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

**Anatomy**

- The following key anatomical landmarks are realistic to palpate: skin, subcutaneous fat, quadriceps tendon & patellar ligament, prefemoral fat pad, suprapatellar fat pad, Hoffa (Infrapatellar) fat pad, femur, medial & lateral collateral ligament, tibia, patella, joint space & synovial recess, meniscus & muscle mass of quadriceps

**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

**Cleaning & Care**

- Skin is washable using mild soap and water

---

**Product Qualities**

**Anatomy**

- The following key anatomical landmarks are realistic to palpate: skin, subcutaneous fat, quadriceps tendon & patellar ligament, prefemoral fat pad, suprapatellar fat pad, Hoffa (Infrapatellar) fat pad, femur, medial & lateral collateral ligament, tibia, patella, joint space & synovial recess, meniscus & muscle mass of quadriceps

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- Can be used with leg supports for supine position, or without leg supports for side of bed position
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- Clear indicator on Fluid Bag to prevent overfilling

**Cleaning & Care**

- Skin is washable using mild soap and water
Shoulder for Joint Injection

For practising soft tissue joint injection used for the treatment of injuries and arthritis.

**Skills**
- Patient posture and management
- Palpation techniques
- Injection on 5 specific sites:
  - subacromial space
  - acromioclavicular joint
  - bicipital groove
  - glenoid fossa from the anterior aspect
  - glenoid fossa from the posterior aspect

**Product Qualities**

- **Anatomy**
  - Represents normal anatomy precisely (both superficially and subdermally) for palpation purposes
- **Key Features**
  - Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired
- **Versatility**
  - Supplied with ‘No Trace’ marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks
- **Safety**
  - Skin contains latex

- 30023  ‘No-Trace’ Marker
- 30094  Shoulder Needle Set
- 30020  Shoulder Skin
- BKS1846195004 Joint and Soft Tissue Injection Book (5th Ed)
- Shoulder 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

**Product 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

- 30023  ‘No-Trace’ Marker
- 30093  Elbow Needle Set
- 30081  Elbow Skin
- BKS1846195004 Joint and Soft Tissue Injection Book (5th Ed)
- Elbow base unit
- Feedback console with batteries
  - Carry case
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 metacarpal joint
- Precise placement of needle to avoid median nerve

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

Product Qualities

Foot & Ankle for Joint Injection

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

Skills
- Patient posture and management
- Palpation techniques
- Identifying anatomical landmarks
- Injection sites for:
  - metatarsophalangeal (MTP) joint
  - Morton’s neuroma
  - tarsal tunnel
  - plantar fascia
  - sinus tarsi
  - retrocalcaneal bursa
  - subtalar joint

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

Product Qualities
Limbs & Things Laparoscopic Skills Trainer USB

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

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

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

Product Qualities
- Skin frame constructed from durable neoprene
- Two 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

Compatible with all FLS consumables and instruments
See Page 56

Soft Tissue Retaining Set

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).
Fundamentals of Laparoscopic Surgery™ Trainers

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

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

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

Product 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

For further information on the FLS Trainer System visit fls-products.com

FLS Trainer Box with TV Camera

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

Note that users must provide their own TV screen.

The FLS Trainer comes complete with a TV Camera

FLS skin frame is constructed from durable neoprene and uses clips to attach to the frame securely. It has 2 pre-incised holes for the trocars

Element 50302

Manual task products designed to develop fundamental skills

Optional Extras
See Page 56 for more information about Optional Consumables & Instruments

Rubber strips provide the FLS Trainer Box with a sturdy platform for training

Trainer design allows for ambient light to enter the training area
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 Sim Cart.

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

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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.

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<th>Item</th>
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<th>50304</th>
<th>50306</th>
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<tr>
<td>Foam Organs (x3)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Suture Block</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Penrose Drains (x50)</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Single Use Ligation Loops (x3)</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
</tr>
<tr>
<td>Multi-Use Ligation Loops (x5)</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
</tr>
<tr>
<td>Sutures 2/0 Silk 90cm, 26mm Needle (x50)</td>
<td>✗</td>
<td>✗</td>
<td>✔</td>
</tr>
<tr>
<td>19” TV</td>
<td>✗</td>
<td>✔</td>
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</tr>
<tr>
<td>Mobile SimCart</td>
<td>✗</td>
<td>✔</td>
<td>✗</td>
</tr>
<tr>
<td>FLS Approved Instrument Kit</td>
<td>✗</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
## Optional Consumables & Instruments

**FLS Task 1 Peg Transfer**
- 50331 Peg Board & 6 Triangles
- 50360 Triangles for Peg Board (x6)

**FLS Task 2 Precision Cutting**
- 50322 Jumbo Clip Retainer
- 50361 Gauze Pads with Single Circle (x100)*
- 50362 Gauze Pads with Double Circle (x100)†

**FLS Task 3 Ligating Loop**
- 50363 Foam Organs (x15)
- 50364 Single-Use Ligating Loop (x3)*
- 50365 Multi-Use Ligating Loop (x5)†

**FLS Task 4 & 5 Knot Tying**
- 50333 Suture Block
- 50366 Penrose Drains (x100)
- 50367 Suture 2/0 Silk 90cm, 26mm Needle (x50)
- 50368 Suture 2/0 Silk 90cm, 26mm Needle (x25)

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

* Not for animate use, not sterile, for training purposes only
† Instrument Kit includes:
  1 x Endoscissors
  2 x Maryland dissectors
  1 x Right needle driver
  1 x Left needle driver
  1 x Graspers (locking)
  2 x Knot pushers (1 open ended; 1 closed ended)
† For practice only, not approved for use during the FLS exam
Large Surgical Dissection Pad

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

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

Product Qualities
Anatomy
– Contains 3 types of vessel: venous, arterial and bile

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

Key Features
– Cost effective and extremely convenient when compared with animal tissue

Versatility
– Wet laboratory not required

Safety
– Veins contain latex

Large Surgical Dissection Pad (50114)

Small Surgical Dissection Pad

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).

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

Product Qualities
Anatomy
– Contains 2 types of vessel: arterial and bile

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

Key Features
– Cost effective and extremely convenient when compared with animal tissue

Versatility
– Wet laboratory not required

Safety
– Veins contain latex

Small Surgical Dissection Pad (50118)
Vermiform Appendix

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

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

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

Skills

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

Product 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

Product Qualities

**Realism**
- Highly realistic viewed 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

*Patents granted*
- US6336812 • EP0990037 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
This product has been designed for healthcare professionals practising the necessary skills for prophylactic and therapeutic male circumcision. It allows practitioners to perform the 3 most common methods of circumcision.

In 2013, trainees and trainers attending RCS Core Surgical Skills courses or a national urology meeting were asked to use the model to undertake circumcision. Feedback questionnaires were analysed from 55 trainees and 32 trainers. Use of the model for training was considered satisfactory or better in 93% of returns. As a realistic model, 92% considered it to be satisfactory/very good/excellent.1

Designed and evaluated in collaboration with:
- MSR Israel Center for Medical Simulation
- Mrs Suzie Venn and her colleagues at the Royal College of Surgeons England

1 Validation of a reusable model for simulation training of adult circumcision

Skills
- Three methods can be performed:
  - Forceps guided
  - Dorsal slit method
  - Sleeve resection

Product Qualities

Realism
- Realistic and accurate representation of the foreskin: realistic retraction of foreskin and realistic representation of the layers of the foreskin

Key Features
- Able to perform penile ring block technique
- Penis presented in supine position
- Can be used to practise suturing techniques

Versatility
- Compact and portable
- Available in light or black skin tones

Safety
- Latex free

Penis without foreskin
- Dorsal slit method
- Forceps guided method
- Sleeve resection method
- 60395 Circumcision Foreskins (x5) - Light (including elastic bands and lubrication sachet)
- 60396 Circumcision Foreskins (x5) - Black (including elastic bands and lubrication sachet)
- 60397 Circumcision Penis - Light
- 60398 Circumcision Penis - Black
- 00551 Jig for Circumcision Trainer
Factored Products
The AirSim® Advance features the uniquely constructed AirSim® airway, designed to provide true, anatomically correct and visually accurate internal features to allow for airway management techniques. The addition of a “real-feel” skin covering provides a more realistic bag mask ventilation training, allowing for accurate articulation.

**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

**Product Qualities**

<table>
<thead>
<tr>
<th>Realism</th>
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<tbody>
<tr>
<td>– Realistic feedback during airway management procedures</td>
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<tr>
<td>– ‘Real feel’ skin covering for added realism</td>
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<table>
<thead>
<tr>
<th>Key Features</th>
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<tbody>
<tr>
<td>– An anatomically correct nasal cavity, with important landmarks such as the turbinates clearly defined.</td>
</tr>
<tr>
<td>– An inflatable tongue with real-life size and texture</td>
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The AirSim® Advance Bronchi provides internal anatomically correct features down to the fourth generation bronchi together with the addition of the ‘real feel’ skin covering. This model combines together the skin covering of the AirSim® Advance with all the combined features of the AirSim® Bronchi to provide a true, anatomically correct and visually accurate trainer for bronchoscopy techniques.

**Skills**
- Diagnostic Bronchoscopy
- Lung isolation techniques using left and right endobronchial tubes and bronchial blockers
- Lung suctioning techniques
- Double naso-tracheal intubation
- Bag and Mask ventilation techniques
- Full range of supraglottic devices
- Direct laryngoscopy
- Endotracheal tube insertion
- Awake fibre optic examination
- Single lung isolation techniques
- Combi tube insertion

**Product Qualities**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>– ‘Real feel’ skin covering for added realism</td>
</tr>
<tr>
<td>– An anatomically correct internal Bronchi</td>
</tr>
<tr>
<td>– True, anatomically correct and visually accurate internal features</td>
</tr>
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</table>
The AirSim® Advance Combo combines the uniquely constructed AirSim® airway with the enhanced addition of tracheal rings, simulated cricoid and laryngeal cartilages.

Skills
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- 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 (including Sellick Manoeuvre)
- Naso gastric tube insertion techniques

Product 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
- An 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

AirSim Advance Combo

TCCTC91100

Skills
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- 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 (including Sellick Manoeuvre)
- Naso gastric tube insertion techniques

Product Qualities

Realism
- ‘Real feel’ skin covering for added realism
- Realistic palpable cricoid landmarks, laryngeal cartilages and tracheal rings provide positive user feedback and easy identification of the sternal notch
- Realistic feedback during airway management procedures

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

AirSim Advance Combo Bronchi

TCCTC95100

The AirSim® Advance Combo Bronchi has all the features and anatomy of the Airsim Advanced Combo, with the addition of an anatomically accurate internal bronchi down to the fourth generation.

Skills
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- 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 (including Sellick Manoeuvre)
- Naso gastric tube insertion techniques
- Fibre optic and diagnostic bronchoscopy
- Lung isolation and suctioning techniques

Product Qualities

Realism
- ‘Real feel’ skin covering for added realism
- Realistic palpable cricoid landmarks, laryngeal cartilages and tracheal rings provide positive user feedback and easy identification of the sternal notch
- Realistic feedback during airway management procedures

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

Skills
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- 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 (including Sellick Manoeuvre)
- Naso gastric tube insertion techniques
- Fibre optic and diagnostic bronchoscopy
- Lung isolation and suctioning techniques

Product Qualities

Realism
- ‘Real feel’ skin covering for added realism
- Realistic palpable cricoid landmarks, laryngeal cartilages and tracheal rings provide positive user feedback and easy identification of the sternal notch
- Realistic feedback during airway management procedures

Key Features
- An anatomically correct nasal cavity, with important landmarks such as the turbinates clearly defined
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- Optional subcutaneous fat tissue to demonstrate more difficult tracheostomy and cricothyroidotomy procedures
- An inflatable tongue with real-life size and texture
- A wraparound replaceable neck skin which facilitates up to 20 incisions thus improving efficiency
The AirSim® Child, which has been developed in conjunction with the Children’s Hospital Los Angeles is based on true CT data.

This anatomically correct 6 year old has realistic external and internal anatomical features, perfect for practising basic paediatric airway management skills.

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

**Product 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 oro tracheal intubation
- A tongue bulb to illustrate tongue oedema
- Missing frontal teeth to illustrate realistic dentals of a 6 year old

---

The AirSim® Child Bronchi has been developed to educate and improve competency among paediatric clinical specialists in a range of airway management skills.

Featuring the AirSim® Paediatric Airway, nasal passage and internal anatomical detail down to the 4th generation Bronchi facilitating fibre optic bronchoscopy techniques.

**Skills**
- Direct and video laryngoscopy
- Endo and naso tracheal tube insertion
- Supraglottic device insertion
- Bag mask ventilation
- Fibre optic & diagnostic bronchoscopy techniques
- Lung isolation & suctioning techniques

**Product 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
- The bronchi provide accuracy down to the 4th generation, facilitating the full range of bronchoscopy techniques
- A tongue bulb to illustrate tongue oedema
- Missing frontal teeth to illustrate realistic dentals of a 6 year old

---

**AirSim Child**

TCAC10006

- AirSim child
- Lungs (x2)
- Airway lubricant
- Carry case

**AirSim Child Bronchi**

TCAC50006

- AirSim child bronchi
- Blue child lung bags (x2)
- Airway lubricant
- Carry case
The AirSim® Baby, based on a 0-6 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

**Product 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

---

This versatile laparoscopic trainer incorporates a full HD/1080p digital camera with a 22” LCD screen. It also features additional video output for connection to a digital projector or another monitor. Software is supplied to enable video capture of laparoscopic tasks for subsequent analysis and discussion.

**Skills**
- Hand eye co-ordination
- Use of laparoscopic instruments
- Techniques and skills depending on the laparoscopic product used inside the trainer

**Product Qualities**

**Key Features**
- 16 instrument ports including 4 ports for single port techniques
- Uncovered operating field allows for the trainee to directly observe the task performed inside the trainer (3D vision)
- Covered operating field (shown in image) obscures direct vision forcing the trainee to use the screen (2D vision)
- Transparent laparoscopic ‘torso’ allows for both uncovered and covered operating fields: simply pick it up and turn it around

**Versatility**
- USB interface allows for PC connection
- Full HD video capture capabilities through software provided
- Open ends of ‘torso’ provide quick and easy access when changing laparoscopic components

**Accessories:**
- Laparoscopic ‘torso’
- Display unit with stand
- Blackmagic Media Express software
- Accessories: Training aid shoelaces, specimen tray, suturing set
Nickie® Medical Training Doll

Nickie® is used to practise medical device training for special medical needs children.

Nurses and paramedics can use it to train school and hospital staff, as well as parents and home care providers.

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

Product Qualities

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

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
- Descriptive booklet & carry case

Other ethnicities available
See limbsandthings.com

Nita Newborn

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

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
- 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 and secured with a ‘Stat-Lock’
- Injection port on the left thigh
- Fluid drain in the left heel

- Infant manikin
- Fluid bag and tubing
- Simulated blood
- Nappy
- Carry case
Chester Chest™ with New Advanced 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.

Now with an updated arm that has an IV site, PICC and a recessed area in the upper arm for an optional peripheral IVAD.

**Skills**
- Placement of peripheral port
- Fluid infusion and withdrawal
- Dressing and securement techniques

**Product 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 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

- VTA0406 Real Chest Port (IVAD)
- VTA0408 Dual Lumen 5FR PICC Catheter
- VTA0409 9.6FR Tunneled Central Catheter
- VTA0405 Chest Tissue Flap
- VTA0420/0430/0440 3 Difficult Access Inserts
- Torso with detachable advanced 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

**Product 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

- 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
- VTA0609 Large Simulated Blood Reservoir 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)

Product 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 700 ml of fluid
- Proprietary skin allows standard dressings to be applied
- Support rod holds 500 ml effluent fluid bag

Cleaning & Care
- Skin is washable using soap and water

‘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

Product 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

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

Cleaning & Care
- Skin is washable using soap and water

• 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 500 ml Effluent Fluid Bag
• Pat Pressure Injury Staging Model
• Legend
Based on a 74-year old patient, this model aids in the identification and assessment of wounds. Once the different aetiologies are understood, it can be used to discuss and devise treatment plans.

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

**Product Qualities**

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

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

**Cleaning & Care**
- Skin is washable using soap and water

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

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

**Product 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

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

**Cleaning & Care**
- Skin is washable using soap and water
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