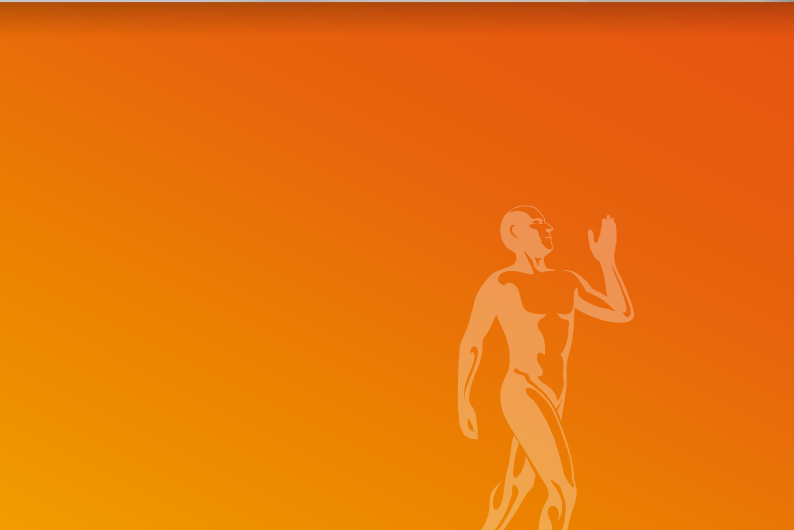


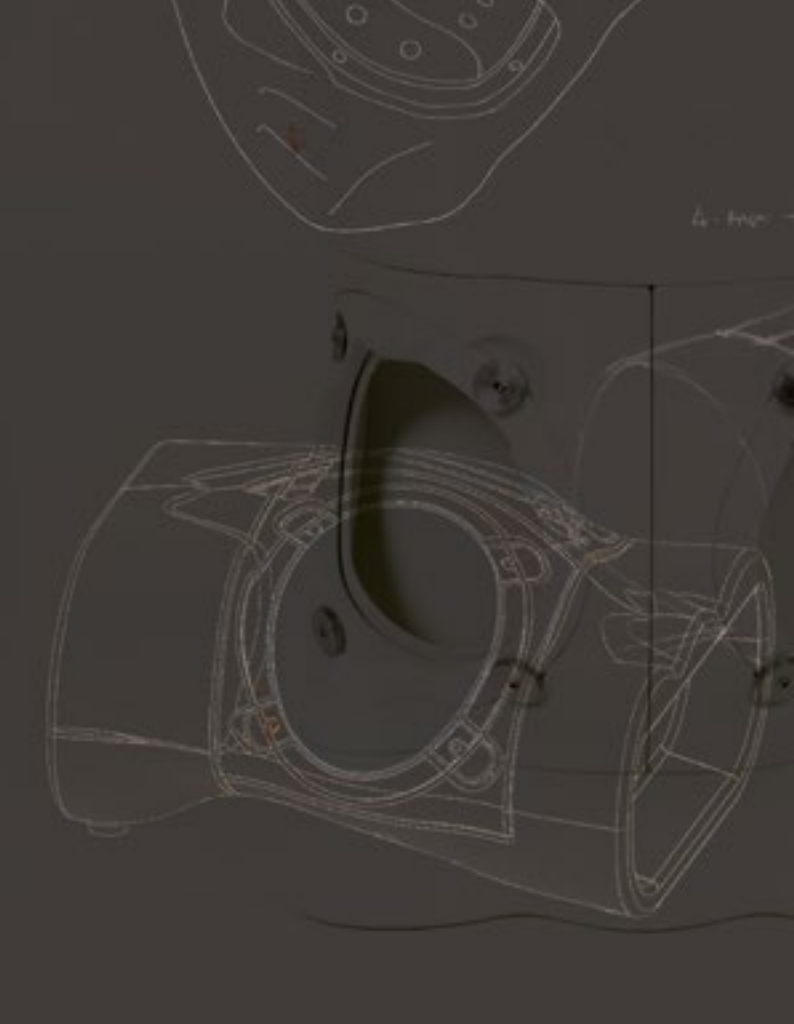


# 2018

## CATALOGUE

*Learning has never been more lifelike*  
[limbsandthings.com](http://limbsandthings.com)





**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.





LIMBS & THINGS  
COMBINES  
MEDICAL EXPERIENCE,  
DESIGN EXPERTISE  
AND INNOVATION  
TO CREATE MODELS  
THAT ARE RENOWNED  
FOR BEING  
ANATOMICALLY  
ACCURATE AND  
PROCEDURALLY  
CORRECT.



Our team in **Research and Development**  
come from many different walks of life;  
qualified doctors, medical artists and engineers.

Each with their own skills, they come together  
to create our new and innovative products.

Our dedicated **Customer Service teams**  
deal directly with customers.

We pride ourselves in understanding individual  
customer requirements, enabling a truly personal  
customer care experience.

THE QUALITY OF OUR WORK IS AT THE HEART  
OF THE LIMBS & THINGS ETHOS, AND OUR AIM  
IS TO PROVIDE EXCELLENCE IN BOTH OUR PRODUCTS  
AND CUSTOMER RELATIONSHIPS, DELIVERING  
THE HIGHEST QUALITY TASK TRAINERS  
AND PROVIDING FIRST-CLASS CUSTOMER CARE.

## WHAT'S NEW?

### PARACENTESIS TRAINING MODEL

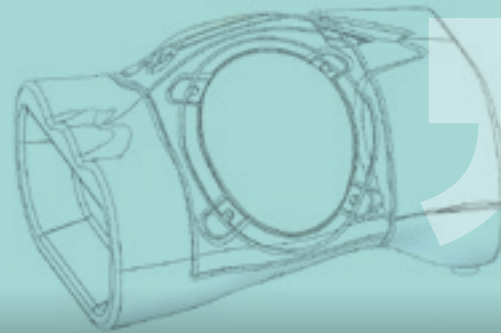
SEE  
P.20



Built on the knowledge and experience gained in the design of the Chest Drain Trainer, there was a clear opportunity for a Paracentesis model which was reasonably priced, tailored exactly to the teaching requirements and easy to set up.

I feel confident we've achieved this and hope our customers agree!

*Matt Pilston*  
R&D Project Manager



### PROMPT FLEX - LABOUR PROGRESS SIMULATOR

SEE  
P.48

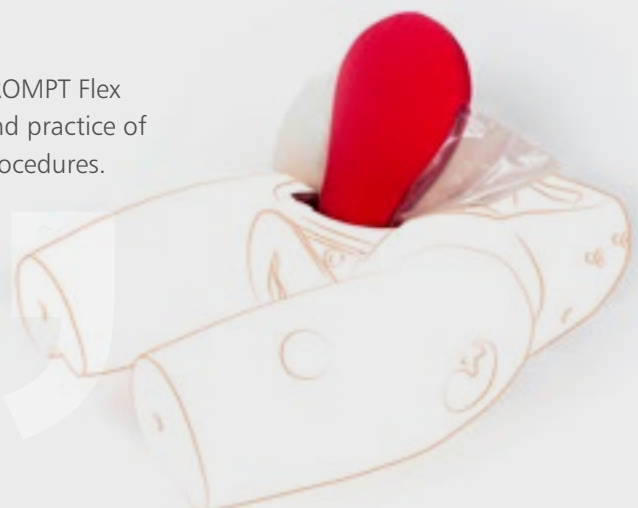
A versatile product, designed especially for nursing and midwifery training. Provides a complete training solution in assessing both the latent and active first stages of labour.



### COMPRESSION SUTURE UTERUS

An additional module for the PROMPT Flex Range, enabling the teaching and practice of common compression suture procedures.

SEE  
P.46



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PHYSICAL  
EXAMINATION  
SKILLS



## CLINICAL FEMALE PELVIC TRAINER (CFPT) MK 3 - STANDARD & ADVANCED

**60900** Standard

Simulated  
Patient



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.

Validated in the *International Journal of Gynaecology and Obstetrics*. Volume 124, pp. 270-3, 2014.

### 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



- 1 Abdominal wall lifts off...
- 2 ... allowing uterine module to be lifted out
- 3 Bi-manual examination
- 4 Use of speculum and cervical broom

### Product Qualities

#### ANATOMY

- Abdomen, pelvis and genitalia
- Vagina, cervix, anus and lower bowel
- Advanced model comes with interchangeable uterine modules with different complications
- Modules:
  - Normal - Nulliparous Cervix
  - Large Fibroid - Nulliparous Ectropion Cervix
  - Small Fibroid - Nulliparous Polyp Cervix
  - Ovarian Cyst - Multiparous Cervix
  - Retroverted - Multiparous Cervix
  - 10-12 Weeks Pregnant
  - 14-16 Weeks Pregnant

#### REALISM

- Abdominal wall with fat layer makes palpation realistic
- Labia can be parted realistically
- Each uterus is presented at the correct anatomical angle

#### KEY FEATURES

- Partial thighs aid anatomical orientation
- Soft and strong perineum and labia

#### VERSATILITY

- Abdominal wall can be removed quickly and easily
- Modules can be changed quickly and easily

#### SAFETY

- Latex free

#### CLEANING & CARE

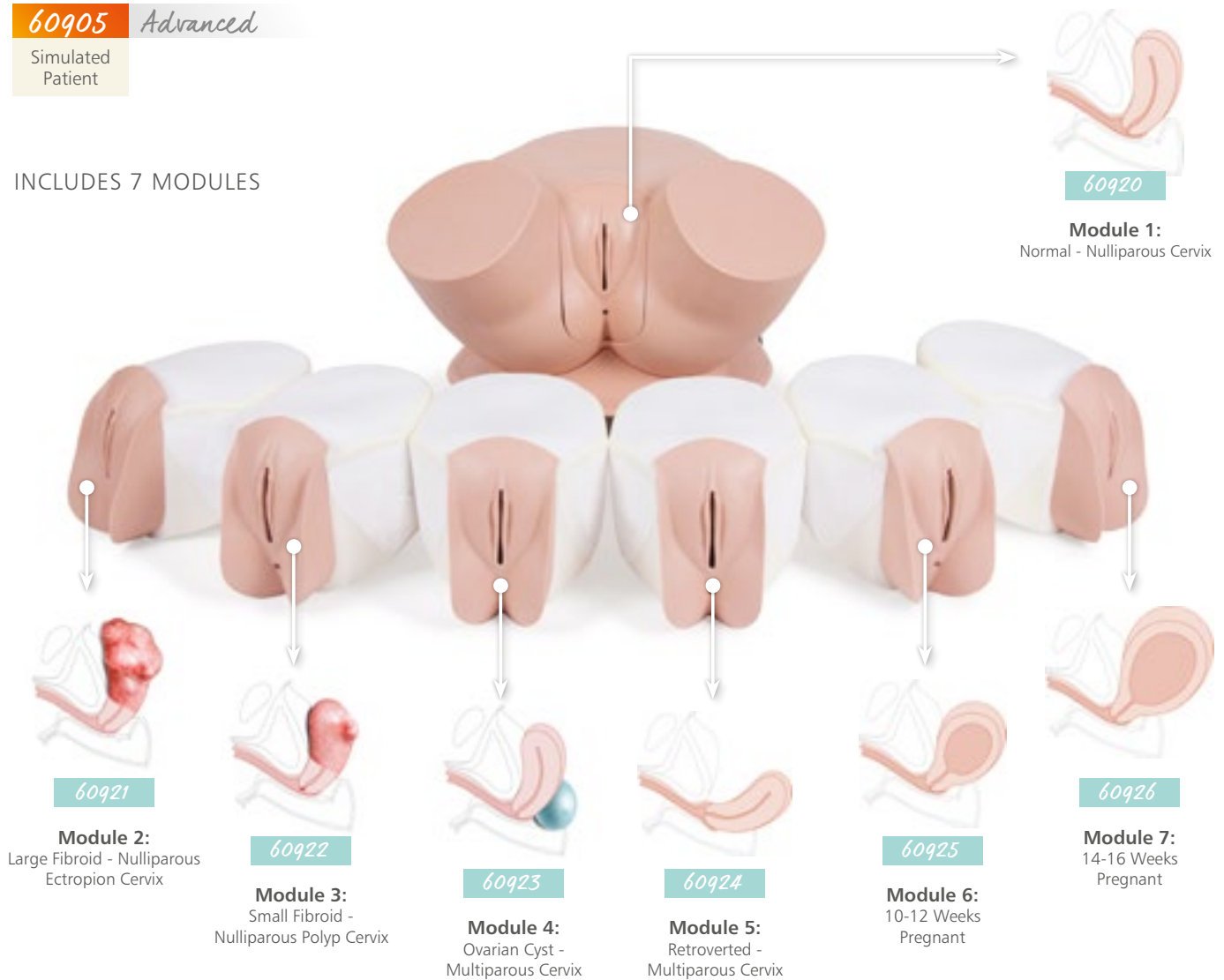
- Skin surface is washable using soap and water



## 60905 Advanced

Simulated Patient

INCLUDES 7 MODULES



Images above are for information purposes  
& show a simplified representation of anatomy within the CFPT Modules

	60900	60905
• 60910 CFPT Abdominal Insert	✓	✓
• 60920 CFPT Module 1: Normal - Nulliparous Cervix	✓	✓
• 60921 CFPT Module 2: Large Fibroid - Nulliparous Ectropion Cervix	x	✓
• 60922 CFPT Module 3: Small Fibroid - Nulliparous Polyp Cervix	x	✓
• 60923 CFPT Module 4: Ovarian Cyst - Multiparous Cervix	x	✓
• 60924 CFPT Module 5: Retroverted - Multiparous Cervix	x	✓
• 60925 CFPT Module 6: 10-12 Weeks Pregnant	x	✓
• 60926 CFPT Module 7: 14-16 Weeks Pregnant	x	✓
• Lower torso	✓	✓
• Base	✓	✓
• Tube of aqueous gel	✓	✓
• Carry case	✓	✓ (x2)

### Patents granted

• US6336812 • EP099027 • DE69804793 • CA 2293585 • ZL98806331 • HK1023832 • 755575 Australia

## BREAST EXAMINATION TRAINER - STANDARD, ADVANCED & BASIC



- 1 Pathologies fit securely into supports
- 2 Clavicular and axilla pads for accurate lymph node placement
- 3 Breasts can be worn by a simulated patient
- 4 Self Breast Examination training

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

### 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

	Adv	Std	Basic
• Wearable Examination Breasts	✓	✓	✓
• 40204 Pathologies	✓	✓	✓
• 40205 Breast Examination Inserts	✓	✓	✓
• 40206 Breast Pathologies Supports	✓	✓	✓
• 40207 Breast Back Plates	✓	✓	✓
• 40208 Breast Examination Torso	✓	✓	✗
• 40203 Lymph Node Pads + Lymph Nodes	✓	✗	✗

### Optional Extras

- 40209 Breast Examination Carry Case

#### Patents granted

- US6336812 • EP099027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia

### EXAMINATION & DIAGNOSTIC BREAST TRAINER

**40044**



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

- **40040** Examination & Diagnostic Breast
- **40106** Breast Aspirant (50ml)
- Rigid two-part plastic base

### RECTAL EXAMINATION TRAINER MK 2

**60120**

Simulated Patient



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

- **60122** Mk 2 Rectal Examination Perineum - Normal
- **60123** Mk 2 Rectal Examination Perineum - Pathology
- **60121** Mk 2 Rectal Examination Prostates (Set of 5)
- **00293** Tube of water-based Lubricant
- Lower torso
- Base
- Carry case

### CLINICAL MALE PELVIC TRAINER (CMPT) MK 2 - STANDARD & ADVANCED

**60950** Standard



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.

Validated in the *Journal of Surgical Education*  
Volume 74, Issue 3, May–June 2017.

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

#### 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



- 1 Realistic training experience
- 2 Pelvic examination (supine position)
- 3 Penile cancer
- 4 Diagnosis of pathologies

#### 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



**60951** Advanced

INCLUDES 7 MODULES



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

	60950	60951
• 60952 CMPT Module 1: Normal	✓	✓
• 60953 CMPT Module 2: Varicocele	x	✓
• 60954 CMPT Module 3: Tumours	x	✓
• 60955 CMPT Module 4: Epididymal Cysts	x	✓
• 60956 CMPT Module 5: Hydrocele	x	✓
• 60957 CMPT Module 6: Orchitis/Epididymo-orchitis	x	✓
• 60958 CMPT Module 7: Indirect Inguinal Hernia	x	✓
• 60959 CMPT Abdominal Insert	x	✓
• 60960 CMPT Pubic Bone	✓	✓(x2)
• 60961 CMPT Foreskins Pack (each pack contains 2 foreskins & 3 lubricant sachets)	✓	✓(x2)
• Lower torso	✓	✓
• Support base	✓	✓
• LED pen torch	x	✓
• Carry case	✓	✓(x2)

**Patents granted**

• US6336812 • EP099027 • DE69804793 • CA 2293585 • ZL98806331 • HK1023832 • 755575 Australia

## ABDOMINAL EXAMINATION TRAINER

**60000**

Simulated Patient

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.

### 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



### 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



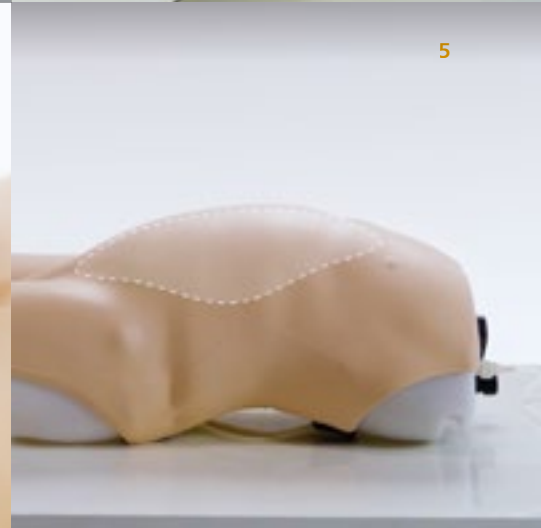
*Distension Set*

- **60005** Abdominal Examination Base Unit
- **60006** Abdominal Examination Skin
- **60007** Abdominal Fluid Bag
- **60008** Abdominal Examination Organ Locator
- **60009** Abdominal Wall
- **60010** Abdominal Examination Livers (Set of 3)
- **60011** Abdominal Examination Spleens (Set of 2)

- **60012** Abdominal Examination Kidneys (x2)
- **60013** Abdominal Examination Bladder
- **60014** Abdominal Examination Pathologies (Set of 6)
- **60015** Abdominal Examination Aortas (Set of 2)
- **60016** Abdominal Examination - Distension Set
- **60053** International 5V DC Power Supply
- AA Batteries (x4)
- Carry case

## Abdominal Examination

- 1 Trainer with skin removed
- 2 Interchangeable organs and pathologies
- 3 Ballottement of kidneys
- 4 Training in auscultation
- 5 Gaseous distension simulation



## Product Qualities

### REALISM

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

### VERSATILITY

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

### KEY FEATURES

- Interchangeable organs and pathologies of varying sizes can be quickly and easily inserted into the abdomen
- Trainer or Simulated Patient can vary respiratory movement of liver and spleen by the turn of a wheel

- Integral amplifier and surface mounted MP3 player allow training in auscultation of normal and high-pitched or obstructed bowel sounds, renal and aortic bruits - in variable locations
- Volume of bowel sounds can be adjusted and MP3 player allows for additional sounds to be loaded
- Distension set allows for the following:
  - Realistic checking for ascites using percussion, shifting dullness or fluid thrill technique
  - Simulation of bowel obstruction on percussion and auscultation
- Pulse bulb allows simulation of normal and aneurysmal aortic pulse

### SAFETY

- Latex free
- 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



## VIDEOS



Our short videos allow you to see the products in use. Take a look!

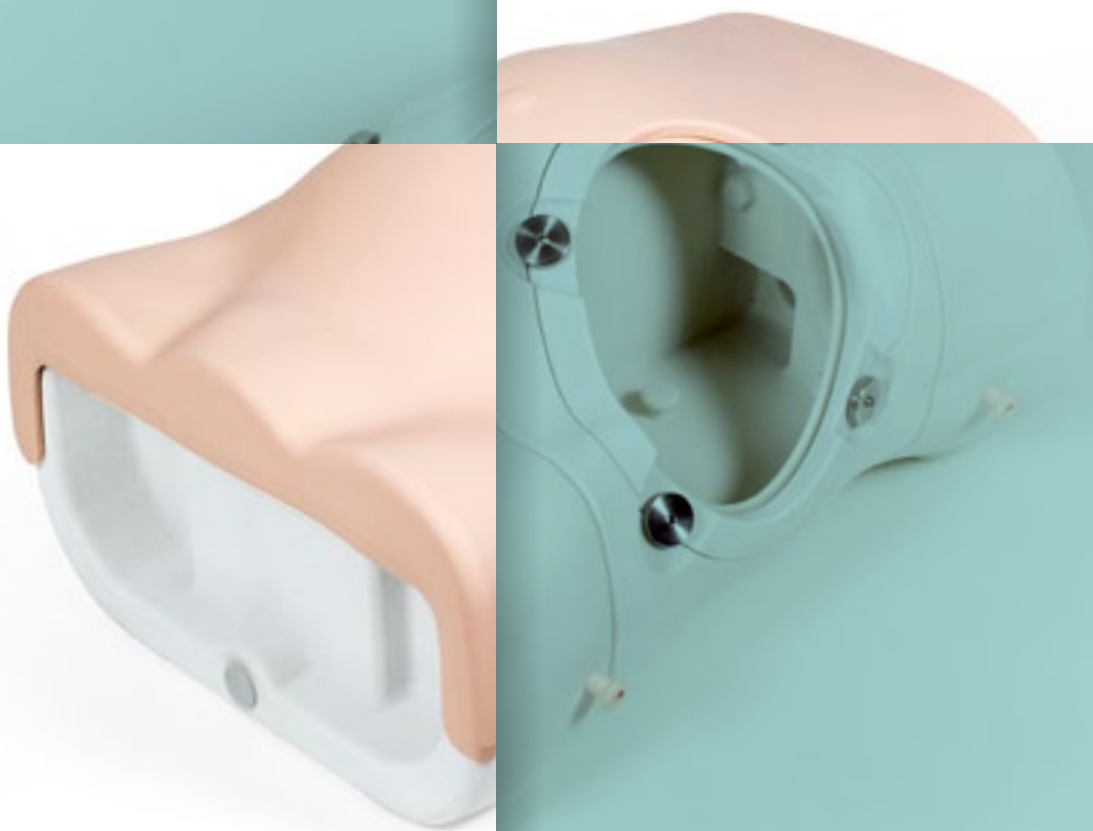
[limbsandthings.com](http://limbsandthings.com)

[youtube.com/limbsandthings](https://youtube.com/limbsandthings)





## PROCEDURAL SKILLS



## ADVANCED CATHETERISATION TRAINER - COMPLETE SET

**60150** Complete Set

Simulated  
Patient

Our Advanced Catheterisation Trainer facilitates the teaching of urethral and suprapubic 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

- 1500 ml 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



- 1 Easily interchangeable units
- 2 Accurate anatomical modelling
- 3 Penis has replaceable foreskin
- 4 Aseptic catheterisation technique

## ADVANCED CATHETERISATION TRAINERS - MALE & FEMALE

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

**60151** Male



**60155** Female



## 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.

**60166** Value Set



## SUPRAPUBIC CATHETERISATION MANAGEMENT BUNG

**60168** Optional

This Pre-Ported Bung allows for the management of catheters after surgical procedure has taken place.



## SELF CATHETERISATION STAND

**60167** Optional

Use with Catheterisation Trainers: 60150, 60151, 60155, 60166 for teaching intermittent self catheterisation.



	60150	60151	60155	60166
• 60152 Male Catheterisation Unit	✓	✓	✗	✓
• 60154 Catheterisation Foreskin (x3)	✓	✓	✗	✓
• 60156 Female Catheterisation Unit	✓	✗	✓	✓
• 60158 Suprapubic bung (x2)	✓	✓	✓	✗
• 60161 Standard bung	✓ (x2)	✓	✓	✓ (x2)
• 60159 Male Catheterisation Sphincter Kit	✓	✓	✗	✓
• 60162 Female Catheterisation Sphincter Kit	✓	✗	✓	✓
• 60160 Aseptic Catheterisation Sleeves	✓ (x2)	✓ (x2)	✓ (x2)	✓ (x4)
• 50183 Mock LA Gel with Syringe	✓	✓	✓	✓ (x2)
• 50185 Antifungal Agent (Milton Sterilising Fluid)	✓	✓	✓	✓ (x2)
• Drip tray with bag stand	✓	✓	✓	✓ (x2)
• 1500 ml fluid bag & plastic kidney dish	✓	✓	✓	✓ (x2)
• 14 French foley catheter (male)	✓	✓	✗	✓
• 12 French foley catheter (female)	✓	✗	✓	✓
• Pelvic shell	✓	✓	✓	✓ (x2)
• 2 Litre jug	✓	✓	✓	✓ (x2)
• Carry case	✓	✓	✓	✓ (x2)

## PARACENTESIS TRAINER

60100

Simulated  
Patient

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

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

1



2



3



4



- 1 Trainer with skin removed, showing internal anatomy
- 2 Catheter insertion for therapeutic drainage
- 3 Needle insertion for diagnostic purposes
- 4 Ultrasound guided technique





## Skills

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

## Product Qualities

### ANATOMY

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

### REALISM

- Realistic tissue and needle response

### KEY FEATURES

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

### VERSATILITY

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

### SAFETY

- Latex free

### CLEANING & CARE

- Skin surface is washable using soap and water

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

## CHEST DRAIN & NEEDLE DECOMPRESSION TRAINER

60230

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.

Ideal for ATLS courses.

NOW  
FEATURES  
NEEDLE  
DECOMPRESSION  
AT THE 5TH  
INTERCOSTAL  
SPACE

### 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

### Skills

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

- **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



- 1 Blunt dissection
- 2 Chest tube insertion
- 3 Seldinger technique
- 4 Internal anatomy visible under ultrasound
- 5 Realistic needle decompression

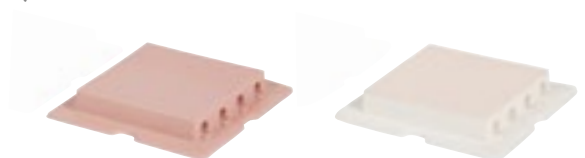


## NEW UPGRADE KIT

### 60243 - Chest Drain Upgrade Kit

Can be added to Chest Drain models purchased before 2018. Please visit [limbsandthings.com](https://limbsandthings.com) for further information

## Pad feature comparison



	Advanced	Standard
• Ultrasoundable	✓	✗
• Use with liquids	✓	✗
• Effusion	✓	✗
• Haemothorax simulation	✓	✗
• Pleural layer	✓	✓
• Blunt dissection	✓	✓
• Seldinger technique	✓	✗
• Can be sutured	✓	✓
• Needle insertion	✓	✓
• Guidewire insertion	✓	✓
• Dilator insertion	✓	✓
• Drain tube insertion	✓	✓
• Use with adhesive dressings	✓	✓
• Shows respiratory swing	✓	✗
• Latex free	✓	✓

## STANDARD VENEPUNCTURE ARM

00330

00331

Simulated Patient

The Standard Venepuncture Arm provides the ideal platform for practising the skills related to venepuncture and IV cannulation.



Standard Venepuncture Arm veins

## BAG & STAND ADVANCED VENEPUNCTURE ARM

00440

00441

Simulated Patient

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



Advanced Venepuncture Arm veins



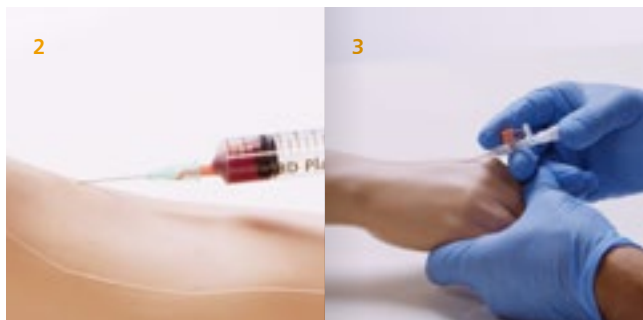
1 The bag and stand mock blood supply is perfect for a clinical skills training environment where large numbers of trainees are practising on a regular basis, or for self-directed learning time in a skills laboratory. Little technical knowledge is required for setup and maintenance.

## VENEPUNCTURE ARMS

(Common features for all Venepuncture Arms)

### Skills

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



2 Vacuum blood collection systems to be used

3 Skin to be stretched to 'anchor' veins for easier cannula insertion

### 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



## ADVANCED VENEPUNCTURE ARM

00290

00298

Simulated  
Patient



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



Advanced Venepuncture Arm veins

	Standard	Bag & Stand Adv	Advanced
• 00292 Advanced Venepuncture Arm Veins	x	✓	✓
• 00295 Advanced Venepuncture Vein Module	x	✓	✓
• 00333 Standard Venepuncture Arm Veins	✓	x	x
• 00334 Standard Venepuncture Vein Module	✓	x	x
• 00335 Venepuncture Arm Infusion Tube	✓	✓	✓
• 00336 Bag & Stand Venepuncture Arm Mock Blood Supply	✓	✓	x
• 00337 Pressurised Venepuncture Arm Mock Blood Supply	x	x	✓
• 00020 Concentrated Venous Blood - Starter Pack	✓	✓	✓
• 00302 Venepuncture Arm Rest	✓	✓	✓
• 00303 Refill Bottle	x	x	✓
• Venepuncture arm skin	✓	✓	✓
• Water-based lubricant pack (x3)	✓	✓	✓
• Arm shell	✓	✓	✓

## 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



## 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

## 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

## Product Qualities (Common features for both Pads)

### 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

- 00180 Vein for ACF Pad
- 00170 Epidermis for ACF Pad

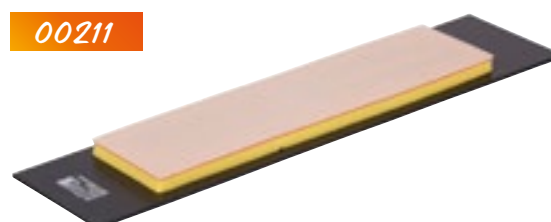
- Pad base with strap

- 00213 Vein for Three Vein Pad
- 00200 Epidermis for Three Vein Pad

- Pad base with strap

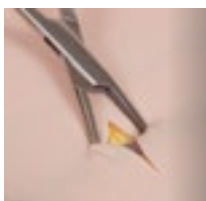
## EXTENDED ACF PAD - VENEPUNCTURE

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



## CUTDOWN PAD

00280



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

### Skills

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

### 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

- 00280 Cutdown Pad

## MOCK BLOOD GIVING SET

60651

A 1500 ml 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)

- 60652 Mock Blood Bag
- Metal stand with base

- Luer lock tube adapter

## MOCK BLOOD - VENOUS

00223

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



## MOCK BLOOD - ARTERIAL

60653

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



## INJECTION TRAINER

00310

Simulated  
Patient



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

- 00311 Skin Pad & Muscle Block
- 00320 Epidermis for Injection Trainer (x2)
- Strap-on base plate
- Soft tissue tray with liner

## ULTRASOUND VASCULAR ACCESS TRAINER

60530



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

### Skills

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

### 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

- 60531 Ultrasound Vascular Access Slab
- 60532 Ultrasound Vascular Access Vein
- Base
- 10ml Syringe



SPECIALIST  
SKILLS



## SUTURE TUTOR PLUS™

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



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

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

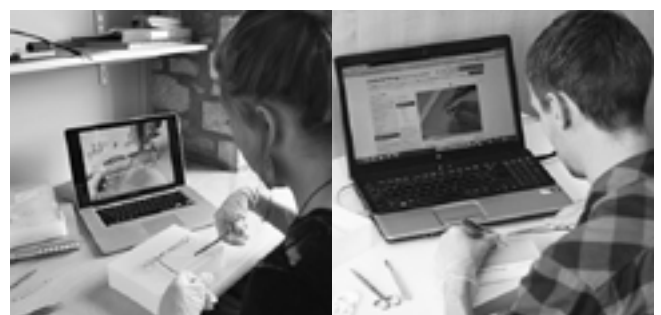
### ONLINE, VIDEO-BASED COURSE

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

### 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)**:

	PRO	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	✓	✗

## HANDS-ON KIT

### STP-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.

<ul style="list-style-type: none"> <li>• 00092 Large, Light Professional Skin Pad Mk 2</li> <li>• 00550 Skin Pad Jig Mk 3</li> <li>• 00555 Basic Knot-tying Kit</li> <li>• INS02000 Pack of 10 Sutures (non-sterile)</li> <li>• Scalpel</li> <li>• Dissecting forceps</li> <li>• Scissors</li> <li>• Needle holder</li> </ul>
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## Choose your Product

	STP-PRO-COM	STP-LITE-COM	STP-PRO-SUB	STP-LITE-SUB	STP-KIT
• One Year Subscription (11 Modules)	✓	✗	✓	✗	✗
• One Year Subscription (6 Modules)	✗	✓	✗	✓	✗
• Hands-on Kit	✓	✓	✗	✗	✓

## Institutional Licences

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

Learn more at  
[limbslearningonline.com](http://limbslearningonline.com)

## KNOT TYING TRAINER

50050



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

### Product Qualities

#### 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

### 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)

## BSS DAY 1 KIT

50070



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

50071



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

50072



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

## BSS DAY 2 REFILL PACK

50073



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

## BSS LESION & CYST

50074



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

**SAFETY:** Contains latex

## BSS ABSCESS

50075



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

## BSS TRAUMATIC WOUND

50047



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

### Skills

- Wound management
- Foreign body removal
- Traumatic wound debridement

#### ANATOMY

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

#### REALISM

- Realistic soft tissue with skin, fat and muscle layers

#### KEY FEATURES

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

#### SAFETY

- Skin contains latex

- BSS Traumatic wound
- Bag of simulated foreign bodies

## BSS SURGICAL SKILLS BOARD

50051



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)
- Skin pad jig
- Base



## DOUBLE LAYER BOWEL

**50061** 30mm Outside Diameter

**50065** 20mm Outside Diameter



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

• **50061** Double Layer Bowel 30mm Outside Diameter

• **50065** Double Layer Bowel 20mm Outside Diameter

## PROFESSIONAL ABDOMINAL OPENING & CLOSURE TRAINER (AOCT)

**60430**



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

- **60431** Professional AOCT Pad:
  - Peritoneums (x2)
  - Balloons (x5)
- **50055** BSS AOCT Frame
- Base

## SKIN PAD JIG MK 3

**00550**

Simulated Patient



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

## WOUND CLOSURE PAD

**00041**

Large (x6)

**00042**

Small (x12)

Simulated Patient

**00043**

Large (x6)

**00044**

Small (x12)



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

### Skills

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



## SKIN PAD JIG STRAP (X3)

**00510**

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



### 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

## PROFESSIONAL SKIN PAD MK 2

00091	Small (x4)	00093	Small (x4)
00092	Large (x2)	00094	Large (x2)

Simulated Patient



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



### 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

## LIPOMA PAD

00081

Simulated Patient



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)

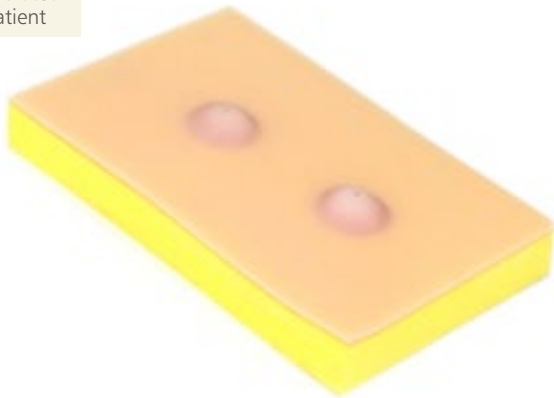
#### SAFETY

- Latex free

## SEBACEOUS CYST PAD

**00071**

Simulated Patient



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

**00103**

Simulated Patient

*Large (x2)*

**00104**

*Small (x4)*



Combines a number of skin lesions (tags, naevi, seborrheic 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 seborrheic keratoses to be removed using curettage technique

#### KEY FEATURES

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

#### VERSATILITY

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

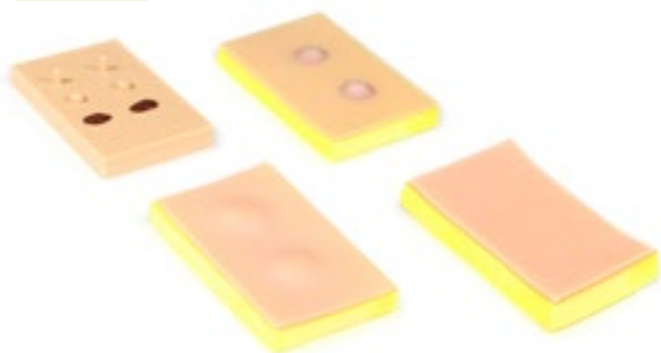
#### SAFETY

- Latex free

## MINOR SKIN PROCEDURES PADS

90065

Simulated Patient



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

80060



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

### Skills

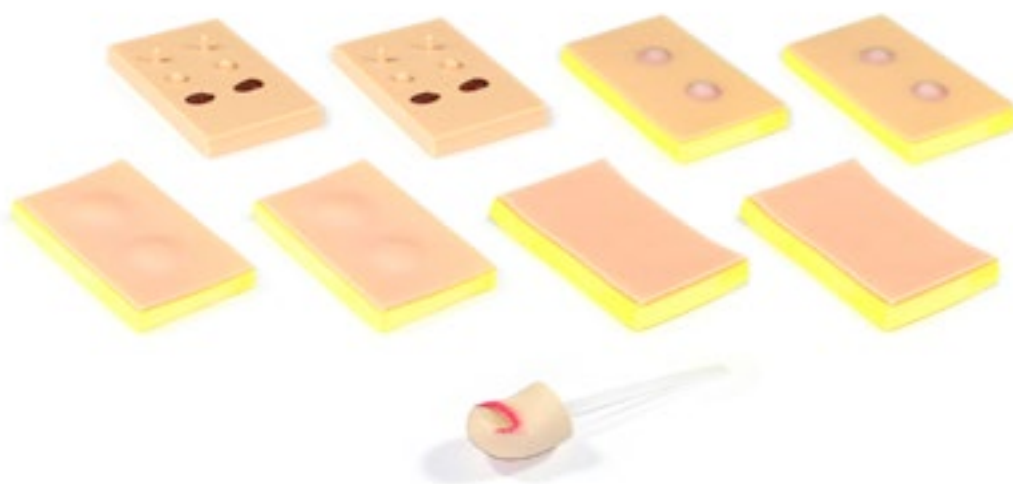
- Ring block techniques
- Total nail avulsion
- Ablation of the nail bed
- Application of a tourniquet
- Phenolisation techniques
- Wedge excision - partial nail avulsion

- 80071 Toe Jig
- 80070 Toe Ends (x3)

## TWO PERSON MINOR SURGERY PACK

90900

Simulated Patient



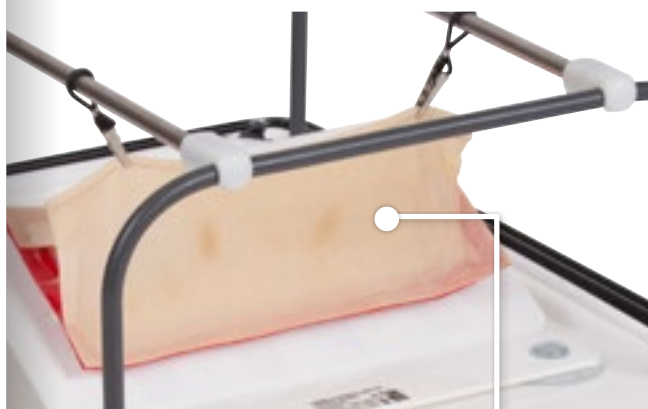
Devised in conjunction with the Royal College of General Practitioners, and containing a selection of the core pad offerings, this pack provides the ideal platform for learning minor surgery skills in pairs. Toe contains latex.

- 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



## GYNAE DISSECTION PAD

50116



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



### 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

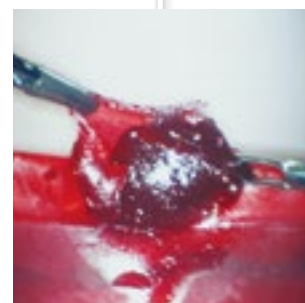
• 50116 Gynae Dissection Pad

## ECTOPIC PREGNANCY

60315



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

• 60315 Ectopic Pregnancy Sheet (x3 Ectopic Pregnancies)

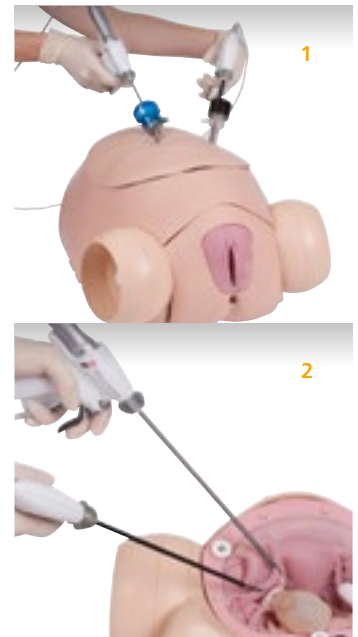
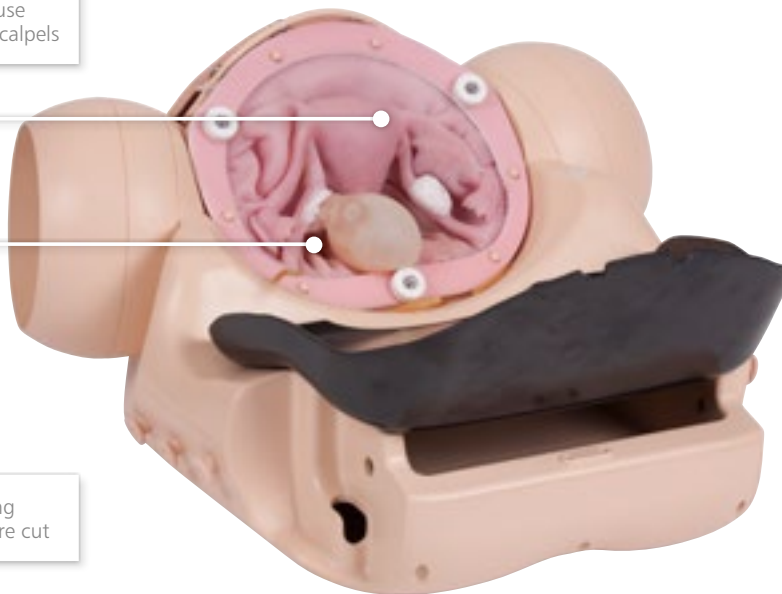
## SURGICAL FEMALE PELVIC TRAINER (SFPT) MK 2

60251

A simulator for training in a wide range of laparoscopic gynaecological surgical techniques and procedures. The uterus component can be easily removed and replaced after use.

Compatible for use with harmonic scalpels

Realistic bleeding when arteries are cut



- 1 Abdominal Skin with realistic tissue properties for trocar insertion
- 2 Working with gynaecology instruments

### Product Qualities

#### ANATOMY

- Includes:
  - Uterus
  - Cervix
  - Bladder
  - Ovaries
  - Ureters
  - Ovarian artery
  - Dunn's pouch
  - Ovarian cyst
  - Fibroid
  - Cardinal ligament
  - Abdominal skin with realistic tissue properties for trocar insertion
  - Pelvic floor with sympathetic features
  - Vagina
  - External introitus
  - Fallopian tube
  - Broad ligament
  - Uterine artery
  - Pouch of Douglas
  - Bowel and sigmoid
  - Ectopic pregnancy
  - Uterosacral ligament

#### 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
  - Salpingostomy
  - Cystectomy
  - Oophorectomy
- Dissection down to and location of ureters
- Insertion and use of uterine manipulator
- Working with various gynaecology instruments
- Identification of anatomical landmarks

- 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

### Consumables

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

#### Patents granted

- US6336812 • EP099027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia

## PROMPT FLEX RANGE

The **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.

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.

## PROMPT FLEX - STANDARD

**80100**

A modular design birthing simulator allowing for numerous training scenarios.

Used either for stand-alone training or integrated into hybrid simulation, it is an ideal training solution for all skills relating to routine and difficult deliveries.

**Additional modules** fit either the Standard or the Advanced units allowing you to tailor your training need.

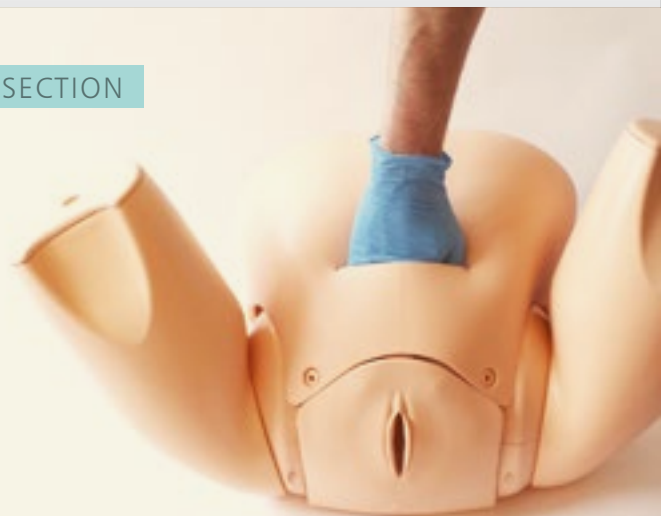
Simulated Patient



PPH



C-SECTION



CERVICAL  
DILATATION  
& EFFACEMENT



COMPRESSION SUTURE UTERUS





## PROMPT FLEX - ADVANCED

**80106**

Incorporates Bluetooth Force Monitoring where force applied to the baby's head is measured during a shoulder dystocia drill.

Includes scenario based software to allow monitoring and recording of actions, interventions made and time taken to deliver the baby.

*iPad not included  
Download simulator software at [limbsandthings.com](http://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

**80100** **80106**

• 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	✗	✓

**80100** **80106**

• <b>80120</b> Birthing Mother (+Upper Legs)	✓	✓
• <b>80121</b> Standard Baby	✓	✗
• <b>80122</b> Wireless Force Monitoring Baby	✗	✓
• <b>80123</b> Placenta	✓	✓
• <b>80124</b> Abdomen for PROMPT Flex	✓	✓
• <b>80125</b> Perineum and Birth Canal	✓	✓
• <b>80130</b> Bed Straps	✓	✓
• Lubricant	✓	✓
• Carry case	✓	✓

## Optional Extras & Consumables

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



## PROMPT FLEX - CERVICAL DILATATION & EFFACEMENT MODULE

**80102**

Simulated Patient

Allowing for training in assessment of both the latent and active first stages of labour.

This versatile module is an optional add-on to the PROMPT Flex Standard or Advanced.

Ideal for midwifery training.



Fetal station adjustment (-3 to +3)



Cervical Dilation (1-10cm)



### Product Qualities

#### REALISM

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

#### KEY FEATURES

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

#### VERSATILITY

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

#### SAFETY

- Latex free

### Skills

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

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



## PROMPT FLEX - CAESAREAN SECTION MODULE

**80103**

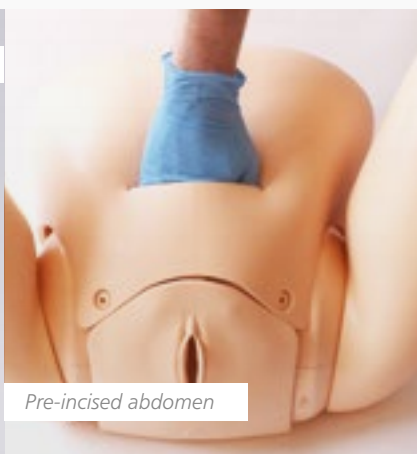
Simulated  
Patient

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

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

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

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



### Product Qualities

#### REALISM

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

#### KEY FEATURES

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

#### VERSATILITY

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

#### SAFETY

- Latex free

### Skills

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

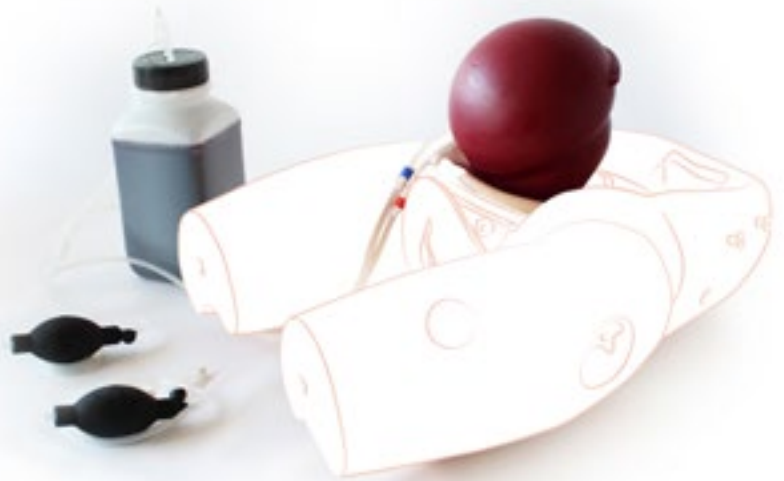
- **80104** Caesarean Section Surgical Pad (x2)
- **80138** Perineum
- **80170** Uterus for Caesarean Section Module
- **80171** Pre-incised Delivery Only Skin
- **80172** Surgical Skin
- **80173** Cervix for Caesarean Section Module
- **80175** Foam Uterus Support
- **80176** Full Dilatation Pelvic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

## PROMPT FLEX - PPH MODULE

80101

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

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



### Skills

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

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

### 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

## PROMPT FLEX - COMPRESSION SUTURE UTERUS

80111

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

Used in conjunction with the 80171 Pre-incised Delivery Skin, it provides the ideal training platform for repeat practise of uterine compression suturing.

This product is based on concepts and collaboration with:

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

### Skills

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

- **Compression Suture Uterus (x2)**



### Product Qualities

#### ANATOMY

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

#### KEY FEATURES

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

#### VERSATILITY

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

## PROMPT FLEX - POSTPARTUM HAEMORRHAGE KIT

**80112**



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

To be used with the PROMPT Flex Standard or Advanced.



### Skills

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

### Product Qualities

#### REALISM

- Atonic uterus can simulate contraction on fundal massage
- A representation of postpartum uterus including uterine arteries and broad ligament

#### KEY FEATURES

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

#### VERSATILITY

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

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

## PROMPT FLEX - LABOUR PROGRESS SIMULATOR

80109



The PROMPT Flex Labour Progress Simulator provides a versatile cervical dilation and effacement training solution, for assessing both the latent and active stages of labour.



### Product Qualities

#### REALISM

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

#### KEY FEATURES

- Inserts to represent early labor 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 labor
- Markers allow tutor to read positioning in situ
- Numerous presenting part inserts including
  - flexed
  - deflexed
  - brow
  - face
  - breech
  - caput and moulding

#### VERSATILITY

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

#### SAFETY

- Latex free

### Skills

- Competency in:
  - Cervical dilation (1-10cm)
  - Cervical effacement (0-100%)
  - Cervical consistency (soft, medium, hard)
  - Cervical position (anterior, mid, posterior)
  - Fetal station (-3 to +3)
  - Head position: occiput anterior, occiput posterior
- Artificial rupture of membranes
- Identification of presenting parts - brow, face, breech
- Caput and moulding
- Communication and teamwork skills
- Bishop's scoring
- Identification of approximated or overriding sutures

- **80120 Birthing Mother (with upper legs)**
- **80102 PROMPT Flex - Cervical Dilatation & Effacement Module**
- **80124 Abdomen for PROMPT Flex**
- **Carry case**

(Baby not included)



## PERINEAL & EPISIOTOMY REPAIR TRAINER

60450



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

#### 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



### 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

#### 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



### 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

#### 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

- 60226 Episiotomy Pad
- Base
- Clamps (x2)

## ANAL SPHINCTER TRAINER

60227



For practising the techniques associated with the repair of the internal and external sphincter (third degree tear).

### 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

- 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

## BREASTMILK HAND EXPRESSION TRAINER

**40103**

Simulated  
Patient



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.

### 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



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

## KNEE ASPIRATION & INJECTION TRAINER WITH ULTRASOUND CAPABILITY

**70103**

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

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

### Skills

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



- 1 Internal anatomy of knee model
- 2 Key internal landmarks visible under ultrasound
- 3 Aspiration of synovial fluid
- 4 Ultrasound image (patella insertion)

- **70104** Ultrasound Knee Module for Aspiration & Injection
- **70106** Fluid Bag and Stand
- **70107** Synovial Fluid (including Syringe)
- **70108** Needle Set – 3 Green (21 gauge) Needles, 1 Syringe, 1 Sharps Bin
- **BKS1846195004** Joint and Soft Tissue Injection Book (5th Ed)
- Leg Unit, including Removable Supports
- Carry Case for Knee



### 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

#### REALISM

- Discrete muscle and skin layers provide realistic tissue and needle response
- Anatomically accurate synovial sac and palpable patella
- Realistic colour and consistency of synovial fluid

#### KEY FEATURES

- 1000+ stabs per module with 21 gauge needle
- Precise, palpable anatomy with bony landmarks
- Robust, sealed knee unit that holds all anatomy
- Key internal landmarks visible under ultrasound
- Compatible with all standard ultrasound machines
- Echolucent material allows aspiration and injection under ultrasound-guidance
- Suitable for undergraduate and postgraduate medical study
- Knee skin is watertight

#### VERSATILITY

- Caters for ultrasound-guided technique as well as palpation
- Can be used with leg supports for supine position, or without leg supports for side of bed position
- Separate Fluid Bag & Stand ensure the model is easy to use and mobile
- Clear indicator on Fluid Bag to prevent overfilling

#### SAFETY

- Latex free

#### CLEANING & CARE

- Skin is washable using mild soap and water

## SHOULDER FOR JOINT INJECTION

30010



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

30080



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

### Skills

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

### 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

## HAND & WRIST FOR JOINT INJECTION

30031



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



### Skills

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

### Product Qualities

#### ANATOMY

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

#### 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

- 30023 'No-Trace' Marker
- 30092 Hand and Wrist Needle Set
- 30040 Hand and Wrist Skin
- BKS1846195004 Joint and Soft Tissue Injection Book (5th Ed)
- Hand and Wrist base unit
- Feedback console with batteries
- Carry case

## FOOT & ANKLE FOR JOINT INJECTION

30100

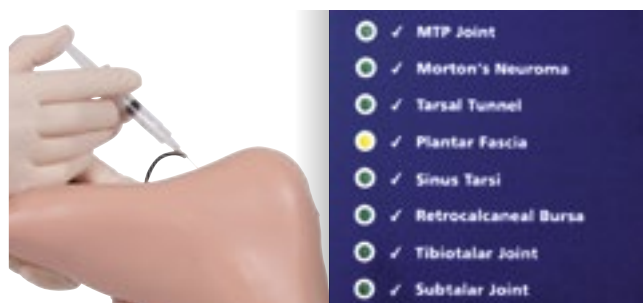


A foot and ankle for practising soft tissue injection for the treatment of injuries and arthritis.

Designed in collaboration with Mr Jim Pickard and Dr Chris Davies from the University of Huddersfield, UK.

### Skills

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



### Product Qualities

#### ANATOMY

- Represents normal anatomy as required for palpation purposes

#### KEY FEATURES

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

#### SAFETY

- Latex free

- 30095 Foot and Ankle Needle Set
- 30101 Foot and Ankle Skin
- 70102 Foot and Ankle Musculature
- BKS1846195004 Joint and Soft Tissue Injection Book (5th Ed)
- Foot and Ankle base unit
- Feedback console with batteries
- Carry case



## SOFT TISSUE RETAINING SET

**50151**



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

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

### Product Qualities

#### KEY FEATURES

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

#### VERSATILITY

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

#### CLEANING & CARE

- Hardwearing
- Retaining clips recommended for use on a smooth work surface or on the variable slope jig to stabilize synthetic bowel, arteries and veins and flat pads
- Easy to clean



- Variable slope jig
- Retaining clips (x4)

## LIMBS & THINGS LAPAROSCOPIC SKILLS TRAINER USB

**50301**



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

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

### Skills

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

### 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

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

Compatible with all FLS consumables and instruments  
See Page 58

## 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.



For further information on the FLS Trainer System visit [fls-products.com](http://fls-products.com)

### 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

## FLS TRAINER BOX WITH TV CAMERA

**50302**

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

*Note that users must provide their own TV screen.*



The FLS Trainer comes complete with a TV Camera



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

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

Trainer design allows for ambient light to enter the training area

### Optional Extras

See Page 58 for more information about Optional Consumables & Instruments

Manual task products designed to develop fundamental skills

## 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.



## 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.



	50302	50304	50306
• Trainer Box	✓	✓	✓
• Camera - TV (with lead)	✓	✓	✓
• Light Strip	✓	✓	✓
• Power Cable	✓	✓	✓
• Simulated Skin	✓	✓	✓
• String & Alligator Clips (x2)	✓	✓	✓
• Trocar (x2)	✓	✓	✓
• Peg Board with 6 Triangles	✓	✓	✓
• Jumbo Clip Retainer	✓	✓	✓
• Single Circle Gauze (x25)	✓	✓	✓
• Double Circle Gauze (x25)	✓	✓	✓
• Foam Organs (x3)	✓	✓	✓
• Suture Block	✓	✓	✓
• Penrose Drains (x50)	x	✓	✓
• Single Use Ligation Loops (x3)	x	x	✓
• Multi-Use Ligation Loops (x5)	x	x	✓
• Sutures 2/0 Silk 90cm, 26mm Needle (x50)	x	x	✓
• 19" TV	x	✓	✓
• Mobile SimCart	x	✓	✓
• FLS Approved Instrument Kit	x	x	✓



## Optional Consumables & Instruments

### FLS Task 1 Peg Transfer



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

### FLS Task 2 Precision Cutting



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

### FLS Task 3 Ligating Loop



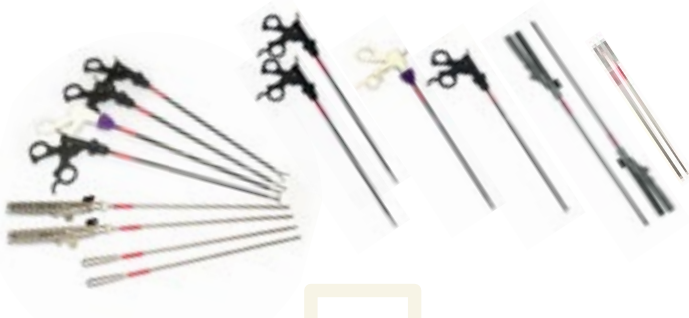
- 50363 Foam Organs (x15)
- 50364 Single-Use Ligating Loop (x3)\*
- 50365 Multi-Use Ligating Loop (x5)\* ‡

### FLS Task 4 & 5 Knot Tying



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

## Instruments - FLS Approved



- 50380 FLS Approved Instrument Kit (8 Pieces)\* †
- 50381 Pair of Maryland Dissectors\*
- 50382 Graspers (Locking)\*
- 50383 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

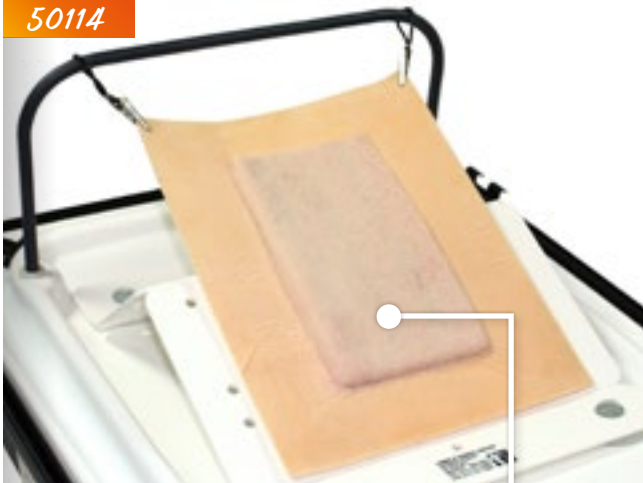
† Instrument Kit includes:

- 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

50114



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



### Skills

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

### 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

- 50114 Large Surgical Dissection Pad

## SMALL SURGICAL DISSECTION PAD

50118



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

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

### Skills

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

### 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

- 50118 Small Surgical Dissection Pad



## VERMIFORM APPENDIX

**50122** Normal Anatomy

**50123** Post-ileal

**50124** Retrocaecal

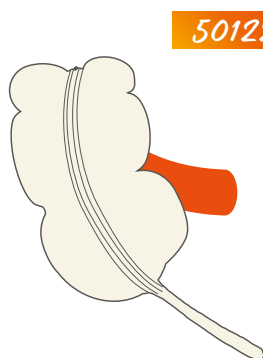
A series of three models representing the different locations in which the vermiform appendix is to be found. Trainees will move on from the Surgical Dissection Pads (**50118** & **50114**) to this progressive 3 stage appendices suite:

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

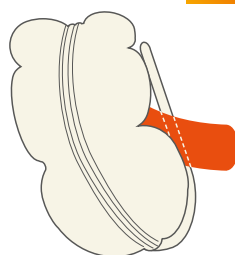
Each model has the additional feature of a simulated peptic ulcer, for closure using peritoneum and mesentery.



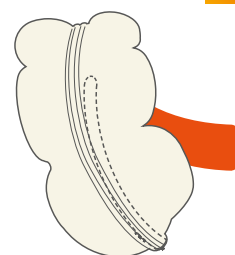
Normal Anatomy



50122



50123



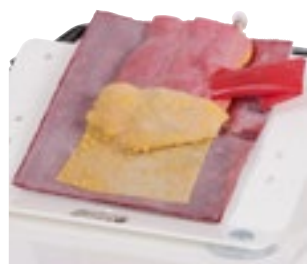
50124

## 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



Post-ileal



Retrocaecal

## 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 • EP099027 • DE69804793 • CA 2293585  
• ZL98806331 • HK1023832 • 755575 Australia

## GALL BLADDERS

- 50127** Normal Anatomy
- 50128** Bifurcated Cystic Artery
- 50129** Short Cystic Duct
- 50132** Wide Common Bile Duct & Stones

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.



Normal Anatomy



Bifurcated Cystic Artery



Short Cystic Duct



Wide Common Bile Duct  
& Stones for Exploration

## 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 • EP099027 • DE69804793 • CA 2293585  
• ZL98806331 • HK1023832 • 755575 Australia

## ADULT MALE CIRCUMCISION TRAINER LIGHT AND BLACK

60395

60392



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.<sup>1</sup>

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

<sup>1</sup> Validation of a reusable model for simulation training of adult circumcision  
Arie Parnham, Nick Campaign, Chandra Shekhar Biyani, Asif Muneer, Suzie Venn.  
RCS The Bulletin, Volume 97 Issue 9, October 2015, pp. 383-385

### 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

- **60396** Circumcision Foreskins (x5) - Light (including elastic bands and lubrication sachet)
- **60397** Circumcision Penis - Light
- **00551** Jig for Circumcision Trainer

- **60393** Circumcision Foreskins (x5) - Black (including elastic bands and lubrication sachet)
- **60394** Circumcision Penis - Black
- **00551** Jig for Circumcision Trainer

## FACTORED PRODUCTS



**Hands On Learning**



## New AIRSIM X

- Softer, more realistic skin material for improved intubation
- Improved articulation means less force required for airway view
- Skin, nasal passage and airway can be replaced quickly and easily

### AIRSIM ADVANCE X

TCAA91100X Improved design



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

#### Skills comparison

	ADVANCE X	COMBO X
• 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 (incl. Sellick Manoeuvre)	✓	✓
• Naso gastric tube insertion techniques	✗	✓

### AIRSIM COMBO X

TCCTC91100X Improved design



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

#### Contents comparison

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

#### Product Qualities comparison

	ADVANCE	ADV. COMBO
<b>REALISM</b>		
- '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	✓	✓
<b>KEY FEATURES</b>		
- 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	✗	✓

### TRUCRIC

TCTCRIC1

The TruCruc is ideal for practising emergency needle and surgical cricothyroidotomy techniques. The model also facilitates percutaneous tracheostomy procedures.

Anatomically accurate features including; tracheal rings, simulated cricoid, cricothyroid membrane and laryngeal cartilages helps provide realistic training in front of neck access techniques.





## New AIRSIM X

- Softer, more realistic skin material for improved intubation
- Improved articulation means less force required for airway view
- Skin, nasal passage and airway can be replaced quickly and easily

### AIRSIM BABY X

TCJR10001X *Improved design*



The AirSim® Baby X, 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

- AirSim Baby X
- Baby lung bag set
- Airway lubricant
- USB user manual
- Carry case

### AIRSIM CHILD COMBO X

TCCC10006X *Improved design*



Ideal for practising oral and nasal intubation training techniques, percutaneous tracheostomy and emergency cricothyroidotomy on a 6 year old child.

#### Skills

- Double nasotracheal intubation
- Needle and surgical cricothyroidotomy
- Percutaneous tracheostomy
- Oral and nasal intubation
- Laryngeal mask airway and supraglottic device insertion
- Combi tube insertion
- Fibre optic intubation and video laryngoscopy
- Bag and Mask ventilation techniques

#### Product Qualities

##### REALISM

- A realistic larynx which features palpable cricoid landmarks, laryngeal cartilages and tracheal rings

##### KEY FEATURES

- A tongue bulb which can be inflated to create tongue edema providing a variance during training
- User feedback through the visualisation of stomach inflation and lung expansion

##### VERSATILITY

- Cost effective replaceable consumables; the neck skin can be rotated on the model allowing up to twenty incisions, while the larynx insert can facilitate one surgical cricothyroidotomy and three tracheostomy procedures.
- All consumables are quick and easy to interchange, perfect for a busy teaching environment

- AirSim Child Combo X
- Child lung bag set
- Spare larynx inserts (x4)
- Airway lubricant
- USB user manual
- Carry case

## NICKIE® MEDICAL TRAINING DOLL

HOL-WF *White Female*HOL-WM *White Male*

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***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

- 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

## NITA NEWBORN

VTA1800



An anatomically correct manikin representing a 1.8kg, 40cm long female baby for teaching and practising the vascular accessing of newborns and infants.

*Skills*

- Placement, suctioning, securing, dressing, cleansing and maintenance of nasal cannulas, endotracheal tubes, nasotracheal tubes and feeding tubes
- Central catheter insertion, securing, dressing & maintenance
- IV and PICC line insertion, securing, dressing & maintenance
- Umbilical catheterisation
- Venepuncture including heparinisation and fluid infusion

*Product Qualities***ANATOMY**

- Venepuncture sites include:
  - median, basilic and axillary sites in both arms
  - saphenous and popliteal veins in right leg
  - external jugular and temporal veins

**REALISM**

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

**KEY FEATURES**

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

- Infant manikin
- Fluid bag and tubing
- Simulated blood
- Nappy
- Carry case

## CHESTER CHEST™ WITH NEW STANDARD ARM

VTA2400

VTA2402

*Improved design*



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

### *Skills*

- Fluid infusion and withdrawal
- Dressing and securement techniques

### *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 optional triple lumen and subclavian catheters

#### VERSATILITY

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

## PETER PICC LINE™

VTA0600



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

- VTA0406 Real Chest Port (IVAD)
- VTA0408 Dual Lumen 5FR PICC Catheter
- VTA0407 9.6FR Tunneled Central Catheter
- VTA0405 Chest Tissue Flap
- VTA0420/0430/0440 3 Difficult Access Inserts
- Torso with detachable standard arm
- Blood reservoir bag in the torso & arm
- Base

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

#### CLEANING & CARE

- Skin is washable using soap and water

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

## '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 and dressing changes can be taught and practised on all wounds
- Staging of ulcers matches US National Pressure Ulcer Advisory Panel guidelines

#### CLEANING & CARE

- Skin is washable using soap and water

- **Pat Pressure Injury Staging Model**

- **Legend**

## SEYMOUR II WOUND CARE MODEL™

VTA0910

VTA0920



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

## 'WILMA' WOUND FOOT™

VTA0950

VTA0955



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

• Seymour II Wound Care Model

• Legend

• Wilma Wound Foot

• Stand

• Legend



## HELAGO HD LAPAROSCOPIC TRAINER

**HEL-LT018**

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.



### *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

### *Skills*

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

- **Laparoscopic 'torso'**
- **Performance ASsessment Software (PASS)**
- **Blackmagic Media Express software**
- **Accessories:** Training aid shoelaces, specimen tray, suturing set
- **Laparoscopic training station** with integrated trolley with adjustable height, 23" LED monitor and revolving torso available
- **Display unit with stand**



PRODUCT  
RANGES



## UNDERGRADUATE

## References:

**UK** - GMC Outcomes for Graduates: Tomorrow's Doctors

**USA - AAMC (2008):**  
*Recommendations for Preclerkship  
Clinical Skills Education for  
Undergraduate Medical Education*

AAMC (2005): Recommendations for Clinical Skills Curricula for Undergraduate Medical Education

## ABDOMINAL EXAMINATION



## CATHETERISATION



MALE  
& FEMALE  
EXAMINATION



## VENEPUNCTURE



# BASIC SURGICAL SKILLS



## WOUND CARE



## NURSE TRAINING

### References:

**UK** - *Standards for pre-registration nursing (NMC) 2010.*

*RCN Competences, Advanced nurse practitioners 2012.*

**USA** - *Clinical Nursing Skills & Techniques. 8th Ed. Perry, Potter & Ostendorf (2014).*

*Nurse Practitioner Core Competencies Content (2014). The National Organization of Nurse Practitioner Faculties.*

## ABDOMINAL EXAMINATION



## CATHETERISATION



## VENEPUNCTURE



## PAEDIATRICS



## WOUND CARE





## ATLS

### Reference:

*Advanced Trauma Life Support® (ATLS®) program*  
- American College of Surgeons (ACS)

## AIRWAY MANAGEMENT



## CHEST TRAUMA MANAGEMENT



## VENOUS CUTDOWN





# PARAMEDIC TRAINING

## References:

**UK** - Section C: Pre-Registration Curriculum for Paramedic Development College of Paramedics, Paramedic Curriculum Guidance (3rd Edition Revised 2015).

**USA** - National Association of State EMS Officials: National Model EMS Clinical Guidelines (2016).

## OBSTETRICS & MIDWIFERY



## CHEST TRAUMA MANAGEMENT



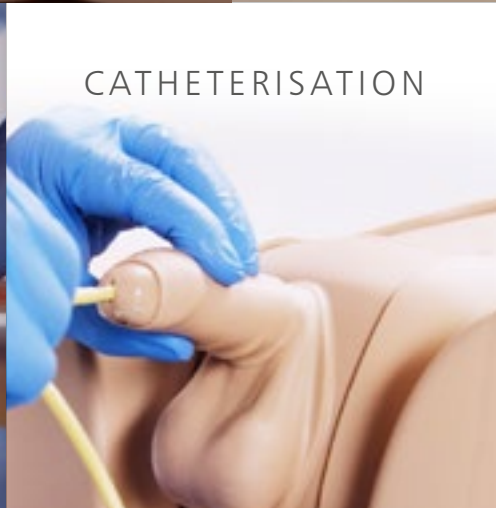
## ABDOMINAL EXAMINATION



## VENEPUNCTURE



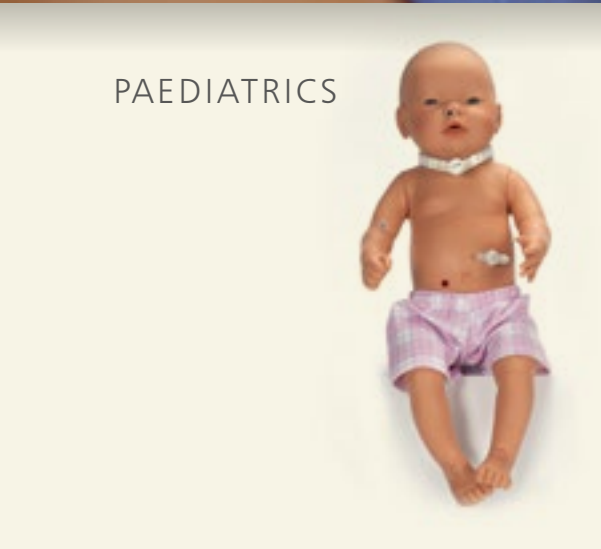
## CATHETERISATION



## MINOR SURGERY



## PAEDIATRICS



## WOUND CARE



## AIRWAY MANAGEMENT



# OSCE TRAINING

*Reference:*

*Objective structured clinical  
examination (OSCE)*

## MALE & FEMALE EXAMINATION



## CATHETERISATION



## ABDOMINAL EXAMINATION



## AIRWAY MANAGEMENT



## VENEPUNCTURE



# POSTGRADUATE MEDICINE

## References:

**UK** - *Specialty Training Curriculum for Core Medical Training August 2009 (with amendments August 2013)*

**USA** - *Required Procedural Training in Family Medicine Residency: A Consensus Statement (2008)*



PARACENTESIS

## CHEST TRAUMA MANAGEMENT



## CENTRAL LINE MANAGEMENT



## JOINT INJECTION & ASPIRATION



## AIRWAY MANAGEMENT





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