Learning has never been more lifelike

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.
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.
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

**WHAT’S NEW?**

**PARACENTESIS TRAINER**

SEE P. 22

**PROMPT FLEX - LABOR PROGRESS SIMULATOR**

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 labor.

SEE P. 64

**COMPRESSION SUTURE UTERUS**

An additional module for practicing all common types of Compression Suture procedures and ligating the uterine artery.

SEE P. 62
PHYSICAL EXAMINATION SKILLS
The CFPT Mk 3 is an anatomically accurate and tactile representation of the female pelvis. It is the ideal platform for hands-on examination as well as diagnosis of female conditions and minor pathologies. It can be used for many levels of training from undergraduate onwards, as well as in family health.


**Skills**

- Recognition of perineal and pelvic anatomy including bony landmarks
- Digital vaginal examination
- Bi-manual examination
- Cervical smear procedure (including use of speculum)
- Digital rectal examination
- Professional-to-patient communication

**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

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1. Abdominal wall lifts off...
2. ... allowing uterine module to be lifted out
3. Bi-manual examination
4. Use of speculum and cervical broom
INCLUDES 7 MODULES

- 60920 CFPT Module 1: Normal - Nulliparous Cervix
- 60921 CFPT Module 2: Large Fibroid - Nulliparous Ectropion Cervix
- 60922 CFPT Module 3: Small Fibroid - Nulliparous Polyp Cervix
- 60923 CFPT Module 4: Ovarian Cyst - Multiparous Cervix
- 60924 CFPT Module 5: Retroverted - Multiparous Cervix
- 60925 CFPT Module 6: 10-12 Weeks Pregnant
- 60926 CFPT Module 7: 14-16 Weeks Pregnant

Images above are for information purposes & show a simplified representation of anatomy within the CFPT Modules.
BREAST EXAMINATION TRAINER - STANDARD, ADVANCED & BASIC

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 Center, University of Liverpool, UK
- Clinical Practice Center, 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 infracavicular)
- Location and diagnosis of pathologies
- Professional-to-patient communication

Optional Extras

- 40209 Breast Examination Carry Case

Patents granted
- US6336812 • EP099027 • DE69804793 • CA 2293585
- ZL98806331 • HK1023832 • 755575 Australia
EXAMINATION & DIAGNOSTIC BREAST TRAINER

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

Skills
• Recognized 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

ULTRASOUND-GUIDED BREAST BIOPSY PHANTOMS

The 2 breast phantoms supplied provide for the development of the skills needed for accurate needle biopsy.

Skills
• Transparent Breast
  - Hand-eye coordination
  - Visualization of the targets and needle tip on transparent breast
• Opaque Breast
  - Acquisition of skills in safe and reliable needle biopsy, under ultrasound guidance
  - Fine Needle Aspiration Biopsy (FNAB)
  - Core Needle Biopsy (CNB)

Product Qualities

ANATOMY
– Transparent breast:
  - 12 hyperechoic targets (blue) are embedded
– Opaque breast:
  - 6 hyperechoic targets (blue) & 6 hypoechoic targets (red) are embedded
– 2 sizes of targets are embedded in each breast: 6mm and 10mm dia
– Targets are embedded in 3 layers to provide opportunities of working with a variety of needle paths
– Targets are colored to confirm successful sampling

REALISM
– Breast phantom tissue accurately represents softness and resistance of the mammary gland
– Excellent image quality

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

• KKUS-9 11387-000 Duo Set (Transparent+Opaque)
• KKUS-9 11387-100 Transparent Set
• KKUS-9 11387-200 Opaque Set
Our anatomically accurate trainer is an ideal platform for teaching and learning hands-on male pelvic examination and diagnosis.

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


Developed in collaboration with:
- The Clinical Skills Resource Center, 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 catheterization
- Professional-to-patient communication

**Product Qualities**

**ANATOMY**
- Abdomen, pelvis and genitalia

**Anatomy of the groin with clear anatomical landmarks:**
- Anterior Superior Iliac Spine (ASIS)
- Pubic symphysis and tubercles

**Genitalia includes:**
- Penis - both circumcised and non-circumcised
- Scrotum - containing testicles with epididymis and vas deferens

**Pathologies (Advanced model only):**
- Testicular tumor 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

1. Realistic training experience
2. Pelvic examination (supine position)
3. Penile cancer
4. Diagnosis of pathologies
INCLUDES 7 MODULES

Images above are for information purposes & show a simplified representation of anatomy within the CMPT Modules.
Our rectal examination model comprises a realistic representation of the buttocks, anus and rectum enabling the practice of diagnostic skills associated with rectal examination.

### Skills
- Digital prostate examination
- Digital 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
- When in use, 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

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1. Practice of rectal examination
2. Trainer can be presented in different positions
3. 5 interchangeable prostates
4. Rectal pathology

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- **60120** Simulated Patient
- **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**
Allowing a complete physical examination, the model teaches students to anticipate, describe and identify physical examination findings.

New modules with contrasting scenarios have been developed in collaboration with the University of Illinois at Chicago.

Physiko features 12 pre-set examples of outpatients designed to cover typical complaints, facilitating training in assessment procedures, assessment skills as well as hands-on knowledge regarding important abnormal findings. You can also create patients that address the unique needs of your local curriculum.

**Product Qualities**

**ANATOMY**
- 12 pre-set typical outpatient complaints
- Can be adapted to specific curriculum needs

**REALISM**
- Physical Examination Skills Training mode features:
  - 4 pupillary reflex conditions: normal, pupillary dilation, pupillary constriction, bilateral asymmetry
  - Blood pressure can be set as required
  - 8 breathing auscultation sounds: normal lung, weak left lung, absent in the right lung, bronchial breathing, coarse and fine crackles, wheezes, rhonchi
  - 18 heart auscultation sounds: S2 split absent, S2 split present, S3 and S4 gallop, innocent murmur, aortic stenosis, mitral regurgitation and stenosis, aortic regurgitation, sinus tachycardia and bradycardia, atrial fibrillation and flutter, premature ventricular contraction (single), ventricular flutter and fibrillation, cardiac sound regulation
  - 5 bowel auscultation sounds: normal, increase, decrease, subileus, ileus
  - 10 EKG simulations: normal, atrial fibrillation and flutter, premature ventricular contraction, ventricular tachycardia, ventricular flutter and fibrillation, myocardial infarctions at acute, subacute and chronic stages

**VERSATILITY**
- System has 3 modes:
  - Physical Assessment Mode 1 - pre-set patient cases
  - Physical Assessment Mode 2 - editor mode using supplied data to create new scenarios
  - Physical Examination Skills training - hands-on training asymmetry
- Physical Assessment Mode includes:
  - Chest Pain:
    - Male: 58 yr with Myocardial Infarction
    - Male: 55 yr with Dissecting Aortic Aneurysm
    - Male: 28 yr with Intercostals Muscle Ache
    - Female: 76 yr with Lung Infarction
  - Abdominal Pain:
    - Male: 19 yr with Diarrhea
    - Female: 26 yr with Ileus Pain
  - Unconscious:
    - Female: 36 yr with Brain Hypertension
  - Shortness of Breath:
    - Male: 66 yr with Chronic Obstructive Lung Disease
    - Male: 70 yr with Pulmonic Fibrosis
    - Male: 73 yr with Heart Failure
    - Female: 84 yr with Pneumonia
    - Female: 21 yr with Anemia

**SAFETY**
- Latex free

**CLEANING & CARE**
- Washable using soap and water

Skills
- Assessment procedures and skills for abnormal findings
  - Pupillary reflex assessment
  - Blood pressure measurement
  - Auscultation of breath, heart and bowel sounds
EYE EXAMINATION SIMULATOR

A realistic trainer for teaching and practicing the use of an ophthalmoscope, examining the ocular fundus and identifying diseases and conditions within the eye.

Various cases can be set up for trainees using combinations of a choice of slides, depth and pupil diameter. Soft and supple material allows hands-on simulation of real examination procedures, such as raising the eyelid.

Head is mounted on a sturdy lightweight plastic base.

Product Qualities

ANATOMY
- Head, neck and shoulders (mannequin)
- Eyeballs with lenses
- Eyelids

REALISM
- Lens-equipped eyeballs reproduce a realistic visual axis and view of eyegrounds
- Soft and supple material allows hands-on simulation of raising the eyelids

KEY FEATURES
- Unique set of image-processed slides taken from real cases provide a highly realistic 3D perspective
- 2 step pupil diameter variations (3.5mm and 8.0mm)
- 3 step depth setting slide locator simulates hyperopic, normal and myopic views
- Red reflex
- 10 common diseases/conditions:
  - Normal eyeground
  - Hypertensive retinopathy: arteriolar vasoconstriction grade 3, arteriolosclerosis grade 1, hemorrhages and cotton wool spots, simple vein concealment
  - Simple/background diabetic retinopathy: microaneurysm, hemorrhages and hard exudates
  - Papilledema (chronic phase)
  - Papilledema (acute phase)
  - Glaucomatous optic atrophy: glaucomatous optic disc cupping and nerve fiber defect
  - Retinal vein occlusion (acute phase): flame shaped hemorrhage and cotton wool spots
  - Retinal vein occlusion (after retinal laser photocoagulation)
  - Toxoplasmosis: retinochoroiditis
  - Age-related macular degeneration: macular exudates and subretinal hemorrhage

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

1 The wheel on the forehead adjusts the pupil diameter
2 Remove back of head to change slides & the depth of the fundus
3 Slide: Simple/background diabetic retinopathy
4 Slide: Retinal vein occlusion

- KK11220-010 Ocular Fundus Slides (Set of 10)
- Mannequin head & shoulders
- Slide holder
- Carry case
Product Qualities

ANATOMY
– Head, neck and shoulders
– Anatomically correct soft ear model with external acoustic meatus and tympanic membrane

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

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

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

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

A life-size model of the ear including external acoustic meatus and tympanic membrane, for training in examination of the ear with an otoscope and foreign body removal. It offers 2 modes of use: instructor mode, which is particularly useful for OSCE or skills examination, and self-learning mode.

The model warns against painful insertion in the ear by beeping and displaying a warning light to the assessor.

A yellow light indicates when the tip of the otoscope reaches the bony part of the ear canal, and a red light indicates when it touches the eardrum.
ABDOMINAL EXAMINATION TRAINER

Simulated Patient

60000

An anatomically accurate adult male torso, used to teach and practice 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

Skilled representation of the abdomen, pelvis, and lower thorax with realistic anatomical details and interchangeable organs for comprehensive abdominal examination training.

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

limbsandthings.com
youtube.com/limbsandthings
PROCEDURAL SKILLS
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 practiced.

Trainees are able to identify the echogenic anatomy enabling them to learn how to safely insert a needle or catheter into the peritoneal cavity.
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 practiced (side by side)
- Internal echogenic anatomy to allow recognition of landmarks under ultrasound
- Two 3.5 liter 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
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.

**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

**NOW FEATURES**

**NEEDLE DECOMPRESSION AT THE 5TH INTERCOSTAL SPACE**

**NOW FEATURES**

- **60230** Chest Drain & Needle Decompression Trainer
- **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 for further information

Pad feature comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>Advanced</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrasoundable</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Use with liquids</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Effusion</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Hemothorax simulation</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Pleural layer</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Blunt dissection</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Seldinger technique</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Can be sutured</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Needle insertion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Guidewire insertion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Dilator insertion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Drain tube insertion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Use with adhesive dressings</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>Shows respiratory swing</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Latex free</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
ULTRASOUND GUIDED PERICARDIOCENTESIS SIMULATOR

This simulator allows trainees to practice pericardiocentesis: inserting the needle under ultrasound guidance, piercing the pericardial sac and aspirating pericardial fluid.

Skills
- Ultrasound guided pericardiocentesis using subxiphoid or parasternal approach
- Patient positioning
- Visualization of pericardial fluid
- Palpation and identification of left xiphisternal junction (Larrey’s point) for needle insertion
- Insertion of needle in pericardial space
- Pericardial fluid suction
- Professional-to-patient training

Product Qualities

ANATOMY
- Adult upper torso
- Left xiphisternal junction (Larrey’s point)

REALISM
- Realistic needle tip feeling when the needle pierces the pericardial sac

KEY FEATURES
- Confirmation of ventricles, ribs, pericardium, liver and main artery under ultrasound scanning
- Durable and replaceable puncture pad

Consumables
- KK11394-010 Puncture Pad for Guided Pericardiocentesis Simulator (x2)

ARTERIAL PUNCTURE WRIST

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

Skills
- Palpation of radial artery
- Needle insertion
- Blood collection
- Radial arterial line placement
- IABP connection

Product Qualities

REALISM
- Arterial pulse is palpable
- Soft tissue and artery wall provide realistic needle resistance

KEY FEATURES
- Pressure of pulse is variable
- Flashback can be observed

VERSATILITY
- Puncture sites not visible after use
- One-touch, leak free connectors

CLEANING & CARE
- Easy clean product
- Skin, pad and artery tube are replaceable

Consumables
- KK11351-010 Skin Sets (Inner & Outer)
- KK11351-030 Silicon Belt
- KK11351-040 Artery Tubes (x4)
- Wrist & hand model with circulation pump
- Jar of blood powder with beaker & spoon
- Plastic jars (x2)
- Connection tubes (x2)
- Air bulb
- Vinyl sheet
- Carry case
AIRSIM ADVANCE X

**NEW PRODUCT**

**TCAAG1100X**  Improved design

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

**Skills comparison**

- 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 fiber optic examination
- Combi tube insertion
- Video laryngoscopy (incl. Sellick Maneuver)
- Nasogastric tube insertion techniques

**Contents comparison**

- AirSim Advance X model
- USB user manual
- Carry case

**Advantage**

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

**KEY FEATURES**

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

**TRUCRIC**

The TruCric is ideal for practicing 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.

AIRSIM COMBO X

**NEW PRODUCT**

**TCCTC91100X**  Improved design

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

**Product Qualities comparison**

- 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

**Skills comparison**

- 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 fiber optic examination
- Combi tube insertion
- Video laryngoscopy (incl. Sellick Maneuver)
- Nasogastric tube insertion techniques

**Contents comparison**

- AirSim Combo X model
- Spare larynx inserts (x4)
- Bottle of lubrication (100ml)
- Carry case

- Adult lung bag set
- USB user manual
- Carry case

**Advantage**

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

**KEY FEATURES**

- An anatomically correct nasal cavity, with important landmarks such as the turbinates clearly defined
- An inflatable tongue with real-life size and texture
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- A wraparound replaceable neck skin which facilitates up to 20 incisions thus improving efficiency
ACF PAD - VENIPUNCTURE

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

Skills

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

Product Qualities (Common features for both Pads)

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

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

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

CLEANING & CARE
- Replaceable epidermis
- Washable using soap and water

THREE VEIN PAD - VENIPUNCTURE

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

Skills

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

EXTENDED ACF PAD - VENIPUNCTURE

This soft tissue pad is supplied on a base for table top training in venipuncture and insertion of a cannula. It represents the antecubital fossa of the right arm.
CUTDOWN PAD

00280

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

Skills

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

Product Qualities

ANATOMY
- Layers simulate the epidermis and subdermal layers
- 3 straight veins (each 150mm long) filled with mock blood

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

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

SAFETY
- Skin and veins contain latex

MOCK BLOOD GIVING SET

60651

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

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

Product Qualities

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

VERSATILITY
- This product can be used with Limbs & Things products requiring a mock blood supply including:
  - Cutdown Pad (00280)
  - ACF Pad (00140) & Extended ACF Pad (00211)
  - Three Vein Pad (00161)
  - 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/Fluid Bag
- Metal stand with base
- Luer lock tube adapter

MOCK BLOOD - VENOUS

00223

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

MOCK BLOOD - ARTERIAL

60653

250ml of synthetic solution made to the correct color and viscosity of arterial blood.
STANDARD VENIPUNCTURE ARM

The Standard Venipuncture Arm provides the ideal platform for practicing the skills related to venipuncture and IV cannulation.

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

VENIPUNCTURE ARMS
(Common features for all Venipuncture Arms)

Skills
• Venipuncture
• 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

BAG & STAND ADVANCED VENIPUNCTURE ARM

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

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 Venipuncture Arm Harness (00300)

SAFETY
– Veins contain latex

CLEANING & CARE
– Veins are easy to replace
– Easy to clean, service and maintain
The Advanced Venipuncture Arm features a complex vein system, which is connected to a closed blood supply, for easy adjustment of pressure.

Optional Extras & Consumables
(Available for all Venipuncture Arms)

- 00291 Arm Skin - Light
- 00299 Arm Skin - Brown
- 00300 Venipuncture Arm Harness
- 00301 Venipuncture Arm Carry Case
Our soft tissue injection pad is designed for practicing 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
- Durable replaceable epidermis

**VERSATILITY**
- Strap for hybrid simulation

**SAFETY**
- Latex free

---

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 table 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

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

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- **00310** Simulated Patient
- **00311** Skin Pad & Muscle Block
- **00320** Epidermis for Injection Trainer (x2)
- **00330** Strap-on base plate
- **00340** Soft tissue tray with liner

- **60530** Ultrasound Vascular Access Slab
- **60531** Ultrasound Vascular Access Vein
- **60532** Base
- **60533** 10ml Syringe
ULTRASOUND CVC INSERTION SIMULATOR MK 3

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

Skills

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

Product Qualities

ANATOMY
- Lungs

REALISM
- Lifelike needle tip resistance
- Excellent image quality
- Palpable landmarks and carotid arterial pulsation

KEY FEATURES
- 2 CVC placement pads
- 1 transparent anatomical block
- Blue and red fluid confirms successful and unsuccessful needle placement

- Male upper torso mannequin
- CVC pads (x2)
- Transparent anatomical block
- Skin for cannulation training
- Mock blood powder sachets (red and blue)
- Air bulb
- Plastic jars (x2)
- Irrigation bottle
- Syringe
- Sample needle
ULTRASOUND GUIDED PICC TRAINING SIMULATOR

A simulator for comprehensive hands-on training in Peripherally Inserted Central Catheter (PICC) line insertion and removal under ultrasound guidance.

Skills
- Patient positioning
- Puncture site selection
- Ultrasound-guided venous access
- Seldinger technique
- Peel-away cannula technique
- Advancement of the cannula into the SVC

Product Qualities

ANATOMY
- Male upper torso with right arm
- Internal jugular, subclavian, cephalic and basilic veins
- Sternum
- Ribs
- Superior Vena Cava
- Right clavicle

REALISM
- Palpable ribs and right clavicle allow measurement of catheter length as well as providing anatomical understanding of correct PICC tip location
- Anatomically correct bifurcation of the vein in the upper chest provides realistic resistance of its outer walls and allows simulation of complications such as incorrect insertion of the catheter into the jugular, thoracodorsal or subclavian vein
- Realistic flashback confirms successful venous access

KEY FEATURES
- Excellent image quality and visualization of the needle tip

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

CLEANING & CARE
- Replaceable puncture pads

1 Seldinger Technique
2 Peel-away cannula technique
3 Replaceable puncture pads
4 Ultrasound guided venous access
5&6 Supports transverse and longitudinal views
CHESTER CHEST™ WITH NEW STANDARD ARM

VTA2400
VTA2402

Central Line & Port Management

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

Central Line & Port Management

Designed for practicing 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 visualization of veins

SAFETY
- Veins contain latex

- VTA0601 Arm Vein Tubing Set
- VTA0602 Body Vein Tubing Set
- VTA0603 Arm Skin
- VTA0604 Body Skin
- VTA0606 Rib
- VTA0607 Muscle Tissue
- VTA0608 Superior Vena Cava Viewing Vial
- VTA0609 Large Simulated Blood Reservoir Bag
- Carry case
ULTRASOUND COMPATIBLE LUMBAR PUNCTURE/EPIDURAL SIMULATOR

 Designed to teach and practice the procedure for lumbar puncture and epidural anesthesia using ultrasound guidance.

Skills
• Patient positioning
• Ultrasound-guided lumbar puncture
• Ultrasound-guided epidural anesthesia
• Visualization of lumbar landmarks using ultrasound
• Cerebrospinal Fluid (CSF) collection
• CSF pressure measurement

Product Qualities

ANATOMY
– Lumbar region with
  • lumbar vertebrae
  • spinous process
  • superior articular process
  • transverse process
  • epidural and spinal dura mater

REALISM
– Realistic ultrasound images

KEY FEATURES
– Normal, obese and senior puncture blocks from Model KKM43B (not supplied) can be used to allow training in landmark guided procedures
– Translucent block to allow visibility of the needle trace

VERSATILITY
– 2 support bases to allow upright or lateral positioning

CLEANING & CARE
– Durable, replaceable parts

LUMBAR PUNCTURE & EPIDURAL SIMULATOR MK 2

Designed for hands-on training and assessment in lumbar puncture and epidural procedures. A range of interchangeable puncture blocks is supplied to simulate elderly and obese patients.

Skills
• Patient position management
• Skin preparation
• Palpation of pelvic landmarks
• Palpation of lumbar spinous process
• Needle positioning and insertion
• Collection of Cerebrospinal Fluid (CSF)
• CSF pressure measurement
• Epidural

Product Qualities

REALISM
– Realistic tissue resistance
– Puncture sites not visible on skin

KEY FEATURES
– Puncture block is transparent to allow viewing of the vertebrae (L2-L5) and the associated puncture sites
– Puncture block is quick and easy to replace
– Each vertebral space can be punctured up to 30 times
– Separate anatomical lumbar spine model and lumbar puncture training guide aid learning

• KK11348-150 Skin Cover
• KK11348-090 Puncture Block – Normal
• KK11348-110 Puncture Block – Obese
• KK11348-120 Puncture Block – Senior
• KK11348-130 Puncture Block – Senior Obese
• KK11348-140 Puncture Block – Epidural
• KK11348-060 Lumbar Spine Anatomical Model
• Puncture block support
• Lower torso with 3 support bases
• Reservoir stand & bag
• Syringe
• Carry case
TUBE FEEDING SIMULATOR

An effective training for caregivers and medical professionals who work with patients receiving enteral tube nutrition. The mannequin offers 3 routes for EN tubes and allows training with real liquid foods. The placement of the tubes can be confirmed by auscultation as well as direct observation.

The model is supplied with a feeding routes panel and a chest anatomy overlay sheet to facilitate anatomical understanding.

Skills

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

Product Qualities

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

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

VERSATILITY
- Compact and portable

1. Tube insertion into PEG
2. Administration of liquid food

- Male torso & support base
- Drain tube
- Funnel
- Plastic cup
- Tube feeding routes panel
- Chest sheet
- Instruction manual
- Carry case

National Patient Safety Agency alerts ref: NPSA/2012/RRR01
ADVANCED CATHETERIZATION TRAINER - COMPLETE SET

60150  Complete Set

Simulated Patient

Our Advanced Catheterization Trainer facilitates the teaching of urethral and suprapubic catheterization, as well as how to demonstrate self catheterization to patients (when using the optional Self Catheterization 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 catheterization technique
- Catheter placement: accepts catheters from 14-16 French (male) and 12-16 French (female)
- Fluid management
- Withdrawal of catheter
- Intermittent Self Catheterization (ISC) when used with the optional Self Catheterization Stand (60167)
- Suprapubic catheter insertion and catheter management using Suprapublic 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
- 1500ml fluid bag on stand provides pressurized fluid flow
- Syringe supplied with water-based lubricant to simulate proprietary local anesthetic gel
- Non-drip valve
- Reusable double-sleeve catheter packaging is supplied for teaching aseptic catheter handling

VERSATILITY
- Easily interchangeable male and female catheterization 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 catheterization technique
ADVANCED CATHETERIZATION TRAINERS - MALE & FEMALE

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

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

BASIC CATHETERIZATION TRAINERS - VALUE SET

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

• 50183 Mock LA Gel with Syringe
• 50185 Antifungal Agent (Milton Sterilizing Fluid)
• Drip tray with bag stand
• 1500ml fluid bag & plastic kidney dish
• 14 French foley catheter (male)
• 12 French foley catheter (female)
• Pelvic shell
• 2 Liter jug
• Carry case

SUPRAPUBIC CATHETERIZATION MANAGEMENT BUNG

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

• 60168 Optional

SELF CATHETERIZATION STAND

Use with Catheterization Trainers: 60150, 60151, 60155, 60166 for teaching intermittent self catheterization.
Cherry is a basic, full body nursing mannequin for hands-on training in a wide range of skills required for day to day patient care.

**Skills**

- Body positioning/patient handling/passive exercise
- Bed bathing and change of clothes
- Oral and denture care
- Nasogastric tube placement
- Oxygen/nasal cannula placement
- Tracheotomy care and management
- Stomach pumping
- TPN care

- PEG care
- Stoma care
- Pressure ulcer care
- Subcutaneous injection
- Intramuscular injection
- IV injection and care
- Male and female urinary catheterization
- Enema
- Suppository insertion
- Perineal care
- Wound dehiscence care
- Wrapping of dressings

**Product Qualities**

**ANATOMY**
- Male and female genitalia

**REALISM**
- Seamless arms and legs enable realistic bed and foot bathing
- True-to-life joint articulation for patient handling and passive exercise

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

**VERSATILITY**
- Easily interchangeable male and female genitalia
- Mannequin can sit upright without support
- Removable dentures

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

**Optional Consumables**

- Cherry Patient Care mannequin
- KK11401-040 Male Genitalia
- KK11401-030 Female Genitalia
- Femoral IM injection pad
- Upper arm IM injection pad
- KK11401-070 Wound Care Pad
- Bottle
- Syringe

Check [limbsandthings.com](https://www.limbsandthings.com) for more information about Optional Consumables

**Checklist**

1. Oxygen nasal cannula
2. Subcutaneous injection
3. Wound care pad
4. Female & male genitalia
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 2 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 Program.

- 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.
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 anesthesia | ✓ | ✗
• Other methods of wound closure | ✓ | ✗

This Hands-on Kit contains the essentials for practicing 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.

**STP-KIT**

- 00052 Large, Light Professional Skin Pad Mk 2
- 00550 Skin Pad Jig Mk 3
- 00555 Basic Knot-tying Kit
- INS02000 Pack of 10 Sutures (non-sterile)
- Scalpel
- Dissecting forceps
- Scissors
- Needle holder

**Choose your Product**

<table>
<thead>
<tr>
<th>STP-PRO-COM</th>
<th>STP-LITE-COM</th>
<th>STP-PRO-SUB</th>
<th>STP-LITE-SUB</th>
<th>STP-KIT</th>
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• One Year Subscription (11 Modules) | ✓ | ✗ | ✓ | ✗ | ✓ |
• One Year Subscription (6 Modules) | ✗ | ✓ | ✓ | ❌ | ❌ |
• Hands-on Kit | ✓ | ✓ | ✗ | ❌ | ✓ |

**Institutional Licenses**

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

**Learn more at**

limbslearningonline.com
KNOT TYING TRAINER

A comprehensive trainer for teaching Module 2 of the The American College of Surgeons (ACS) and the Association of Program Directors in Surgery (APDS) Surgery Resident Skills Curriculum–Phase 1, created by the ACS Division of Education to teach foundational surgical skills to residents early in their training. 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 gynecological 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

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

**BSS DAY 1 KIT**

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
- Hemostasis: 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
- Hemostasis pad

**BSS DAY 2 KIT**

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**

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

**BSS DAY 2 REFILL PACK**

- AOCT pad with drain
- BSS abscess
- BSS traumatic wound
- Artery with graft patch
For the practice of skin lesion removal, local anesthesia 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

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

**Skills**
- Abscess drainage
- Necrotic wound debridement

**SAFETY:** Contains latex

---

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

**Skills**
- Wound management
- Traumatic wound debridement

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

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

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

**SAFETY**
- Skin contains latex

---

For use with all Limbs & Things skin pads and the BSS bowel, hemostasis 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

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- 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

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

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

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 a Simulated Patient
- Use with:
  - Professional Skin Pad Mk 2
  - Wound Closure Pad
  - Lipoma Pad
  - Sebaceous Cyst Pad, Curettage, Snip & Shave Excision Pad
  - Minor Skin Procedures Pads

SKIN PAD JIG STRAP (X3)

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

WOUND CLOSURE PAD

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

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

**Product Qualities**

**REALISM**
- Works with all major topical skin adhesives

**KEY FEATURES**
- An excellent starter pad for wound closure training
- Pad dimensions: large 145mm x 125mm
  small 125mm x 72mm

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

**SAFETY**
- Latex free
PROFESSIONAL SKIN PAD MK 2

An advanced 3 layer skin pad for demonstrating and practicing 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
- Blunt dissection
- Removal
- Closure

**Product Qualities**

**REALISM**
- Realistic tissue response and soft skin with a similar drag and strength to human skin
- All layers have realistic retention of sutures

**KEY FEATURES**
- Pad dimensions: large 145mm x 125mm
  small 125mm x 72mm

**VERSATILITY**
- Serves the needs of both specialist and beginner
- Use with the Skin Pad Jig Mk 3 (00550)

**SAFETY**
- Latex free

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LIPOMA PAD

For practicing 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

**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 practicing 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

LESIONS PAD

00085

Developed in conjunction with a leading US dentistry school.

The Lesions Pad features 3 common morphologies that promote the recognition of identifiable landmarks and the practice of various biopsy procedures and suturing techniques.

Skills

- Designed to promote the recognition of common oral pathologies: papule, macule and ulcer
- Also suitable to promote the recognition of simple dermal pathologies
- Incision biopsy
- Excision biopsy
- Punch biopsy
- Planning of oral and minor surgical and suturing techniques

Product Qualities

ANATOMY
- 3 common oral pathologies: papule, macule and ulcer

KEY FEATURES
- Cost effective pad allows several biopsy attempts
- Pad dimensions: 125mm x 72mm

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

SAFETY
- Latex free
CURETTAGE, SNIP & SHAVE
EXCISION PAD

Product Qualities

REALISM
– Stretches to allow realistic extension of the tissue surrounding the skin tags during snip excision
– Stretches to allow realistic extension of nevi during shave excision
– Allows seborrheic keratoses to be removed using curettage technique

KEY FEATURES
– Cost effective: large pad with 4 skin tags, 4 nevi 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

INGROWING TOENAIL TRAINER

Product Qualities

KEY FEATURES
– Cost effective: 3 Toe Ends in the set
– 2 wedge excision procedures can be carried out on each toe end
– Toe ends can be replaced in seconds

SAFETY
– Contains latex

Combines a number of skin lesions (tags, nevi, seborrheic keratoses) for teaching superficial dermatological lesion removal techniques.

Skills
• Snip excision
• Shave excision
• Curettage

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

Skills
• Ring block techniques
• Total nail avulsion
• Ablation of the nail bed
• Wedge excision - partial nail avulsion
• Application of a tourniquet
• Phenolization techniques
KNEE ASPIRATION & INJECTION TRAINER WITH ULTRASOUND CAPABILITY

An anatomically accurate adult knee model for injection and aspiration of synovial fluid from the knee joint, 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

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 color and consistency of synovial fluid

KEY FEATURES
– 1000+ needle sticks 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 or using the palpation method
– Suitable for undergraduate and postgraduate medical study
– Knee skin is watertight

VERSATILITY
– Allows 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

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 & 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
SHOULDER FOR JOINT INJECTION

For practicing 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

ELBOW FOR JOINT INJECTION

For practicing 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
HAND & WRIST FOR JOINT INJECTION
An articulated right hand and wrist used for practicing 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 radials
REALISM
- Articulated joints
KEY FEATURES
- Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired and when the median nerve has been hit
VERSATILITY
- Supplied with ‘No Trace’ marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks
SAFETY
- Skin contains latex

• 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
A foot and ankle for practicing 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
  - sinus tarsi
  - plantar fascia
  - retrocalcaneal bursa
  - 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
GYNAE DISSECTION PAD

An intermediate laparoscopic technique trainer for gynecological 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 mobilization

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

ECTOPIC PREGNANCY

For practicing 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
The Surgical Female Pelvic Trainer (SFPT) is a simulator for training in a wide range of laparoscopic gynecological surgical techniques and procedures. The uterus component can be easily removed and replaced after use.

### 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

**REALISM**
- Insufflation of abdomen is represented

**KEY FEATURES**
- Provides practice and role playing for gynecological 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
  - Salpingostomy
  - Myomectomy
  - Cystectomy
  - Hysterectomy
  - Oophorectomy
- Dissection down to and location of ureters
- Insertion and use of uterine manipulator
- Working with various gynecology instruments
- Identification of anatomical landmarks

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

**Patents granted**
- US6336812 • EP099027 • DE69804793 • CA 2293585
- 2198806331 • HK1023832 • 755575 Australia
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
PROMPT FLEX RANGE

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**

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.

**PPH**

**C-SECTION**

**CERVICAL DILATATION & EFFACEMENT**

**COMPRESSION SUTURE UTERUS**
Product Qualities

ANATOMY
- Birth canal and cervix
- Ischial spines and pubic bone
- Gynecoid 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

<table>
<thead>
<tr>
<th>80100</th>
<th>80106</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication &amp; team work skills (SP)</td>
<td>✓</td>
</tr>
<tr>
<td>Normal</td>
<td>✓</td>
</tr>
<tr>
<td>Breech</td>
<td>✓</td>
</tr>
<tr>
<td>Shoulder dystocia management</td>
<td>✓</td>
</tr>
<tr>
<td>Instrumental (forceps &amp; vacuum devices)</td>
<td>✓</td>
</tr>
<tr>
<td>Delivery of placenta</td>
<td>✓</td>
</tr>
<tr>
<td>Cord prolapse</td>
<td>✓</td>
</tr>
<tr>
<td>Urinary catheter placement</td>
<td>✓</td>
</tr>
<tr>
<td>IM injection pads</td>
<td>✓</td>
</tr>
<tr>
<td>Force feedback of baby’s head</td>
<td>x</td>
</tr>
<tr>
<td>Recording of scenarios &amp; force monitoring</td>
<td>x</td>
</tr>
</tbody>
</table>

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

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

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 molding

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 molding and caput formation

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

80103
Simulated Patient

Ideal for practicing the necessary skills required when performing a cesarean 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 maneuvers.

The module can be used to practice any of the following methods of delivering a deeply impacted fetal head:
- Routine maneuvers
- 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 Cesarean 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 Cesarean Section Surgical Pad (x2)
- 80138 Perineum
- 80170 Uterus for Cesarean Section Module
- 80171 Pre-incised Delivery Only Skin
- 80172 Surgical Skin
- 80173 Cervix for Cesarean Section Module
- 80175 Foam Uterus Support
- 80176 Full Dilatation Pelvic Insert
**PROMPT FLEX - PPH MODULE**

80101

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

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

**Skills**

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

**Product Qualities**

**REALISM**
- Atonic uterus can simulate contraction on fundal massage

**KEY FEATURES**
- Blood loss of up to 2 liters 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 Only Skin, it provides the ideal training platform for repeat practice 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 Gynecologist 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

**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

**Product Qualities**

**REALISM**
- Atonic uterus can simulate contraction on fundal massage

**KEY FEATURES**
- Blood loss of up to 2 liters 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 PROMPT Flex birthing mother
PROMPT FLEX - POSTPARTUM HEMORRHAGE KIT

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
  - Hemostatic 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 liters 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

80112
80101  PPH Module
80111  Compression Suture Uterus (Pack of 2)
80171  Pre-incised Delivery Only Skin
The PROMPT Flex Labor Progress Simulator provides a versatile cervical dilation and effacement training solution, for assessing both the latent and active stages of labor.

**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 molding
- Communication and teamwork skills
- Bishop’s scoring
- Identification of approximated or overriding sutures

**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 molding

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

**SAFETY**
- Latex free

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

A 3 stage training system for teaching episiotomy, perineal suturing techniques and repair of episiotomy and 2nd 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 Gynecologist, 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 2nd degree tear repair.
- Tissue layer recognition and handling
- Vaginal mucosal suturing
- Deep muscle suturing
- Subcuticular suturing
- Identification and management of perineal tears
- Enables digital rectal examination before and after repair

**REALISM**
- 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 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 stabilize 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 practicing the techniques associated with the repair of the internal and external sphincter (3rd degree tear). Developed in collaboration with Mr Abdul Sultan, Consultant Obstetrician and Gynecologist, Croydon University Hospital (UK).

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

**Product Qualities**

**ANATOMY**
- Perineal skin, external sphincter, internal sphincter, mucosa and muscle tissue

**REALISM**
- 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 pre-incised, 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

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.

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 milk duct system

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 milk ducts of the normal breast. Squeezing the nipple alone does not produce milk

SAFETY
- Skin contains latex

CLEANING & CARE
- Skin is washable using soap and water

NEWBORN ANNE

LD220-25050

Designed for skills training in neonatal resuscitation. With anatomical accuracy and a product feature set designed to focus on the critical resuscitation skills required in the first 10 minutes of a newborn’s life. Meets key components of the NRP course curriculum.

For more information visit www.limbsandthings.com

Skills
- Insertion of naso and orotracheal tubes and supraglottic devices (LMA)
- Suctioning of the nares, nasopharynx, oropharynx, esophagus and the lungs via an ET tube
- Positive Pressure Ventilation via BVM, T-Piece resuscitator, or anesthesia bag
- Pneumothorax - Needle thoracentesis left mid-axillary
- Orogastric tube insertion
- Manual chest compression at appropriate depth (1/3 AP) and force
- Manual umbilical pulse and umbilical vein/artery access via umbilicus

- Full-body neonatal mannequin
- Meconium module set
- Umbilical cord
- Clamp
- Airway lubricant
- Simulated blood
- Liquid soap
- Baby powder
- IO fill/empty syringe
- Baby diaper
- Carry case
- CD user guide

40103
Simulated Patient

40104 Simulated Breast Milk (500ml)
40105 Cleaning Pump
Breastmilk hand expression trainer
AIRSIM BABY X

The AirSim® Baby X, based on a 0-6 month old, provides a realistic and anatomically correct pediatric mannequin for airway management training.

The mannequin facilitates training in the use of bag/mask ventilation, supraglottic airway insertion and both nasal 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 pediatric video laryngoscopes

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

**AIRSIM CHILD COMBO X**

Ideal for practicing 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
- Fiber 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 visualization 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 Baby X
- Baby lung bag set
- Airway lubricant
- USB user manual
- Carry case

- AirSim Child Combo X
- Child lung bag set
- Spare larynx inserts (x4)
- Airway lubricant
- USB user manual
- Carry case
This anatomically accurate, life-size model of a 4 week old female newborn infant is ideal for training in a range of essential care skills.

**Skills**
- Injection (arm and leg) and catheterization
- Umbilical catheterization and care
- Nasogastric and orogastric tube feeding
- Airway suction
- Endotracheal tube placement
- Airway management
- Assessment of anterior fontanel
- CPR

**Product Qualities**

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

**REALISM**
- Soft, lifelike umbilical cord can be cut and catheterized and is easy to replace.
- Non-rigid, flexible neck
- Veins can be visualized using a real LED transilluminator

**KEY FEATURES**
- Supports 3 types of injection and catheterization training: direct vision, transilluminated and ultrasound guided PICC

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

---

Nickie® is used to practice 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

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

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- Pediatric Ambu bag
- Tracheostomy tube
- Mic-Key button with feeding kit
- Suction Catheter
- Urethral Catheter
- PICC line
- Diastat Training Syringe
- LMA Nasal Atomizer
- Nickie Resource Guide

---
NITA NEWBORN

An anatomically correct mannequin representing a 6 lb, 17 inch long female baby for teaching and practicing 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 catheterization
- Venipuncture including heparinization and fluid infusion

**Product Qualities**

**ANATOMY**

- Venipuncture 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

---

PEDIATRIC LUMBAR PUNCTURE SIMULATOR II

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

**Skills**

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

**Product Qualities**

**REALISM**

- Body of the mannequin is soft and flexible

**KEY FEATURES**

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

**VERSATILITY**

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

---

**Skills**

- Infants mannequin
- Fluid bag and tubing
- Simulated blood
- Diaper
- Carry case

**Product Qualities**

- KK11348-410 Pediatric Lumbar Puncture Block (12mm) (x2)
- KK11348-420 Pediatric Lumbar Puncture Block (17mm) (x2)
- Baby mannequin
- Stand
- Irrigation bag & syringe
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
- 2 pre-incised holes for the trocars
- USB camera included
- Trainer design allows for ambient light to enter training area
- Overhead LED lighting strip
- For use with laptop/PC
- Free downloadable camera software (Windows and Mac compatible)
- Soft Tissue Retaining Set (50151) can be used inside, with the Limbs & Things soft tissue pads
- Rubber strips provide a stable and non slip platform for training

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

Compatible with all FLS consumables and instruments
See Page 74

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

• Variable slope jig
• Retaining clips (x4)
FUNDAMENTALS OF LAPAROSCOPIC SURGERY™ TRAINER SYSTEM

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

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

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

Product Qualities
- Skin frame constructed from durable neoprene
- 2 pre-incised holes for the trocars
- Trainer systems come with a TV camera
- Trainer design allows for ambient light to enter the training area
- Overhead LED lighting strip

FLS TRAINER BOX WITH TV CAMERA

50302
This product is economical and portable, making it ideal for training centers.

Note that users must provide their own TV screen.

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

Optional Extras
See Page 74 for more information about Optional Consumables & Instruments

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

Manual task products designed to develop fundamental skills

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
**FLS TRAINER SYSTEM**

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 centers.

**FLS ALL-IN-ONE TRAINER SYSTEM**

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 center with everything required to run an FLS Training Program.

<table>
<thead>
<tr>
<th>Item</th>
<th>50302</th>
<th>50304</th>
<th>50306</th>
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</thead>
<tbody>
<tr>
<td>Trainer Box</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Camera - TV (with lead)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Light Strip</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Power Cable</td>
<td>✔</td>
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<tr>
<td>Simulated Skin</td>
<td>✔</td>
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<tr>
<td>String &amp; Alligator Clips (x2)</td>
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<tr>
<td>Trocar (x2)</td>
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<tr>
<td>Peg Board with 6 Triangles</td>
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<tr>
<td>Jumbo Clip Retainer</td>
<td>✔</td>
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<tr>
<td>Single Circle Gauze (x25)</td>
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<tr>
<td>Double Circle Gauze (x25)</td>
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<tr>
<td>Foam Organs (x3)</td>
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<tr>
<td>Suture Block</td>
<td>✔</td>
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<tr>
<td>Penrose Drains (x50)</td>
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<tr>
<td>Single-Use Ligation Loops (x3)</td>
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<td>✔</td>
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<tr>
<td>Multi-Use Ligation Loops (x5)</td>
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<td>❌</td>
<td>✔</td>
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<tr>
<td>Sutures 2/0 Silk 90cm, 26mm Needle (x50)</td>
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<td>❌</td>
<td>✔</td>
</tr>
<tr>
<td>19” TV</td>
<td>❌</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Mobile SimCart</td>
<td>❌</td>
<td>❌</td>
<td>✔</td>
</tr>
<tr>
<td>FLS Approved Instrument Kit</td>
<td>❌</td>
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<td>✔</td>
</tr>
</tbody>
</table>
Optional Consumables & Instruments

FLS Task 1  Peg Transfer

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

FLS Task 2  Precision Cutting

- 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

This 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  • Mobilization  • Stapling
• Dissection  • Division
• Ligation  • Suturing

Product Qualities
ANATOMY
– Contains 3 types of vessel: venous, arterial and bile
REALISM
– Provides a realistic response with steel blade laparoscopic instruments or a harmonic scalpel
– Convincing appearance when viewed through laparoscope
– Made from patented material which provides for realistic suturing and stapling
KEY FEATURES
– Cost effective and extremely convenient when compared with animal tissue
VERSATILITY
– Wet laboratory not required
SAFETY
– Veins contain latex

• 50114 Large Surgical Dissection Pad

SMALL SURGICAL DISSECTION PAD

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

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  • Mobilization  • Stapling
• Dissection  • Division
• Ligation  • Suturing

Product Qualities
ANATOMY
– Contains 2 types of vessel: arterial and bile
REALISM
– Provides a realistic response with steel blade laparoscopic instruments or a harmonic scalpel
– Convincing appearance when viewed through laparoscope
– Made from patented material which provides for realistic suturing and stapling
KEY FEATURES
– Cost effective and extremely convenient when compared with animal tissue
VERSATILITY
– Wet laboratory not required
SAFETY
– Veins contain latex

• 50118 Small Surgical Dissection Pad
VERMIFORM APPENDIX

A series of 3 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)
- Retrocecal (as found in 64% of patients)

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

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

Product Qualities

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

REALISM
- Convincing fluid filled vessels, cecum 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
ENDOSCOPY TRAINING SYSTEM

Product Qualities

REALISM
– Built upon a platform identified as highly realistic in trial comparing GI endoscopy simulators
– Allows use of actual colonoscope
– Requires use of suction and insufflation for optimal performance
– Haptic feedback nearly identical to actual endoscopy

KEY FEATURES
– Electronic sensors provide visual and auditory feedback and help track task completion
– 5 discrete tasks facilitate deliberate practice and distributed training
– Peer reviewed evidence for effective use in assessment and training
– Established proficiency based skills curriculum with expert derived performance benchmarks for each task

VERSATILITY
– Represents fundamental skills for all types of endoscopy
– Can be used to simulate a simple colonoscopy, redundant sigmoid, alpha loop, reverse alpha loop and others
– All tasks are reusable so there is no additional cost for consumables

Skills
• Scope manipulation
  Performing basic endoscopic navigation, using tip deflection and torque of the scope
• Tool targeting
  Hand-eye coordination with biopsy forceps and an endoscope
• Retroflexion
  Bending the endoscope backward to identify and navigate to targets.
  Simulates evaluation of cardia of stomach and distal rectum
• Loop management
  Scope navigation to manage the correct reduction of a standard alpha loop
• Mucosal inspection
  Via the colon, evaluation and identification of polyps

Skills
• Colon model with cover
• Straight colon model with feedback tones and lights
• Scope manipulation screen overlay
• Simulated biopsy tool
• Power supply
• User guide

Endoscopy training system KKMW39

Specifically designed to improve endoscopic performance as measured by national assessment programs such as the Fundamentals of Endoscopic Surgery™ (FES), Global Assessment of Gastrointestinal Endoscopic Skills (GAGES) and Assessment of Competency in Endoscopy (ACE).

Developed in partnership with Kyoto Kagaku, and in collaboration with the development team at the National Capital Region Simulation Consortium, and the USU / Walter Reed Department of Surgery.
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

‘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 practiced on all wounds
- Staging of ulcers matches US National Pressure Ulcer Advisory Panel guidelines

CLEANING & CARE
- Skin is washable using soap and water

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

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

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

**Product Qualities**

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

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

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

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

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

**Product Qualities**

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

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

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

References:
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

CATHETERIZATION

MALE & FEMALE EXAMINATION

VENIPUNCTURE

BASIC SURGICAL SKILLS

OTOLOGY & OPHTHALMOLOGY

WOUND CARE
NURSE TRAINING

References:

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

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

PATIENT CARE

CATHETERIZATION

ABDOMINAL EXAMINATION

PEDIATRICS

OTOLOGY & OPHTHALMOLOGY

AIRWAY MANAGEMENT
CHEST TRAUMA MANAGEMENT

VENIPUNCTURE

MALE & FEMALE EXAMINATION

JOINT INJECTION

MINOR SURGERY

ARTERIAL PUNCTURE

WOUND CARE

CENTRAL LINE MANAGEMENT
**Postgraduate Medicine**

Reference:


- **Chest Trauma Management**
- **Airway Management**
- **Diagnostic Procedures**
- **Joint Injection & Aspiration**
- **CENTRAL LINE MANAGEMENT**
- **Basic Surgical Skills**
- **Arterial Puncture**
- **Paracentesis**
EMS TRAINING

Reference:

ATLS

Reference:
Advanced Trauma Life Support® (ATLS®) program - American College of Surgeons (ACS)
OSCE TRAINING

Reference:

Objective structured clinical examination (OSCE)

CATHETERIZATION

MALE & FEMALE EXAMINATION

ABDOMINAL EXAMINATION

PATIENT CARE

AIRWAY MANAGEMENT

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While we endeavor to meet your delivery requirements, our normal delivery time varies from 2-8 weeks from receipt of order and may be extended at certain peak periods.

CARE AND HANDLING OF MODELS
Certain of our synthetic soft tissue models contain natural latex. Latex can be discolored by direct or indirect contact with certain metals and prolonged exposure to direct sunlight. To avoid this always use surgical gloves when carrying out a procedure. Always follow the usage and cleaning instructions supplied with the individual model.

PRODUCT CHANGES
As we have a policy of continual product improvement, there may occasionally be variations at time of ordering with items shown in the catalog.

Patents granted
2277826: UK • 5775916: USA • 0990227: Europe, UK, Germany, Spain, France, Italy, Netherlands • 81174/98: Australia • 1023832: Hong Kong • US6336812: USA • 98806331.x: China • 5-512288: Japan • 2 293 585: Canada

Patents applied for:
11-503978: Japan • 0215051.4: UK

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