Knot Tying Trainer

Part No: **50050**

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

**Features**
- Unique magnetic system to represent tissue strength
- 2 perioperative openings represented by:
  - small, shallow fixed cylinder for tying in a small opening
  - large, deep removable cylinder, reversible for angled abdominal and gynaecological depth tying
- Cylinders are transparent to allow the trainer to observe and assess trainee competence
- Parallel knotting tubes are elastic for a realistic tissue response
- Light and compact

**Package supplied**

- 1 Two Coloured Cord (Pack of 3) Part No: **50164**
- 1 Knotting Tube (Pack of 3) Part No: **50158**
- 1 base with cylinders
- 1 knot tying tension hooks (Set of 3)

| Packed weight (kg) & dimensions (mm) | 1.15 kg | 300 l | 240 w | 160 h |
Basic Surgical Skills

BSS Day 1 Kit

Part No: 50052

Skills
• Knot-tying: one-handed reef knot, instrument tie, surgeon’s knot, tying at depth
• Suturing techniques: holding/manipulation of needles, interrupted, continuous, subcuticular
• Haemostasis: clip tie, continuity tie, pedicle transfixion
• Tissue handling - bowel: end-to-end interrupted sutures, end-to-end continuous sutures

Package supplied
• 1 BSS Knot Tying Trainer
• 1 BSS Surgical Skills Board
• 1 Skin Pad Jig
• 1 BSS Soft Tissue Retaining Set
• 1 Skin Pad
• 1 Haemostasis Pad
• 1 Bowel

Packed weight (kg) & dimensions (mm)
1.8 kg 310 l 240 w 160 h

BSS Day 2 Kit

Part No: 50053

Skills
• Abdominal closure & drain insertion: open abdominal wall, insert drain & secure, close abdominal wall with Aberdeen knot
• Skin lesions & LA techniques: excising a skin lesion, excising a sebaceous cyst
• Cytology techniques & biopsy: fine needle aspiration cytology, Trucut biopsy
• Fine tissue handling: vein patch exercise, tendon repair
• Wound management: abscess drainage, necrotic wound debridement, traumatic wound debridement

Package supplied
• 1 BSS AOCT Pad, Frame & Balloons
• 1 Drain
• 1 BSS Trainer 1
• 1 BSS Trainer 2
• 1 8mm x 140mm Artery
• 1 8mm x 76mm Graft Patch
• 1 BSS Tendon Repair Trainer
• 1 BSS Traumatic Wound with simulated foreign bodies

Packed weight (kg) & dimensions (mm)
4.2 kg 310 l 240 w 240 h

BSS Day 1 Refill Pack

Part No: 50057

1 Skin Pad
1 Bowel
1 Haemostasis Pad

Packed weight (g) & dimensions (mm)
160 g 180 l 240 w 40 h

BSS Day 2 Refill Pack

Part No: 50058

1 AOCT Pad with Drain
1 BSS Trainer 1
1 BSS Trainer 2
1 Tendon
1 Artery with Graft Patch

Packed weight (kg) & dimensions (mm)
2.6 kg 240 l 310 w 160 h
Basic Surgical Skills

BSS Trainer 1
Part No: 50048
For the practice of skin lesion removal, and local anaesthesia, cytology & biopsy techniques.

Skills
• Excising a skin lesion
• Excising a sebaceous cyst
• Fine needle aspiration cytology
• Trucut biopsy

Features
• Cyst has a fragile epidermoid wall filled with simulated pus
• Visit the product web page for more features

Package supplied
• 1 BSS Trainer 1

Packed weight (kg) & dimensions (mm)
1.3 kg 310 w 240 h

BSS Trainer 2
Part No: 50049
For the practice of abscess drainage and necrotic wound debridement.

Skills
• Abscess drainage
• Necrotic wound debridement

Features
• Abscess contains simulated pus (see inset)
• Visit the product web page for more features

Package supplied
• 1 BSS Trainer 2

Packed weight (kg) & dimensions (mm)
1.2 kg 310 w 240 h

BSS Traumatic Wound
Part No: 50047
Included as part of the BSS Day 2 Kit Part No: 50053.

Skills
• Wound management
• Traumatic wound debridement

Features
• Realistic soft tissue with skin, fat and muscle layers
• Wound contains:
  - broken bone with splinters, tendon and fluid filled vein
  - necrotic tissue and simulated foreign bodies (glass and dirt)
• Supplied in handy, compact clam pack with lid which can be used to retain excised tissue and removed foreign bodies

Package supplied
• 1 BSS Traumatic Wound
• 1 bag of simulated foreign bodies

Packed weight (kg) & dimensions (mm)
0.6 kg 260 w 370 h

BSS Surgical Skills Board
Part No: 50051
Used with the BSS Day 1 Refill Pack products and all Limbs & Things skin pads.

Skills
• Pertinent to the synthetic soft tissue product used

Features
• Non-slip heavyweight base
• Smooth top surface allows for secure fixing of soft tissue products using supplied Soft Tissue Retaining Set
• Large board size: 24cm x 31cm
• Wipe clean surface

Package supplied
• 1 BSS Soft Tissue Retaining Set

Packed weight (kg) & dimensions (mm)
1 kg 255 w 350 h

The products on the previous 2 pages have been designed specifically for the revised Royal College of Surgeons Intercollegiate Basic Surgical Skills Course. They were developed in close collaboration with Mr Rory McCloy and Mr Bill Thomas, Raven Department of Education, at the Royal College of Surgeons of England, who were responsible for the development and tested the course. All models have been successfully tried and tested during the College’s pilot courses in London.
BSS Tendon Repair Trainer

Part No: 50056

A representation of a finger flexor tendon at approximately twice life-size.

Developed in conjunction with the Royal College of Surgeons, London (UK). It allows for the practice of tendon repair skills in accordance with the revised RCS Intercollegiate BSS course.

Skills
- Tendon handling using hypodermic needles
- Trimming tendon edges
- Performing a Kessler suture

Features
- Tensioning system and hinged digit allows for testing of repair once completed
- Economical:
  - each tendon can be used twice in conjunction with the skin sheath
  - many times without the skin sheath
- Tendon material is comprised of an inner core with reinforced circumferential material - ideal for holding the appropriate sutures
- Non-slip base

Package supplied
- 1 BSS Tendon Part No: 50059
- Base with hinged digit and tensioning system
- Skin sheath

Double Layer Bowel

Realistic two layer bowel simulation for training in anastomosis techniques.

Skills
- Tissue handling
- Single layer extra mucosal suturing
- Continuous suturing technique
- End-to-end extra mucosal anastomosis (main image)
- End-to-side anastomosis
- Stapling

Features
- Latex free
- Two layers
- Realistic tissue response
- Non-biological material: no hygiene issues or problems
- Mobile when held in Soft Tissue Retaining Set (page 53)
- Will withstand a fluid flush test to demonstrate integrity of the anastomosis
- Dimensions:
  - outside diameter: 20mm or 30mm
  - length: 200mm (approx.)

Double Layer Bowel 30mm OD
Part No: 50061

Double Layer Bowel 20mm OD
Part No: 50065

Both products:

Packed weight (g) & dimensions (mm)
Abdominal Opening & Closure Trainer (AOCT) - Standard

Part No: 60305

A multi-layered abdominal wall pad mounted on a base for teaching all surgical access and closure techniques to the abdomen.

Skills
- Surgical incision to the abdominal wall (laparotomy)
- Insertion of a Veress needle
- Insertion of a trochar • Hassen technique
- Diagnostic peritoneal lavage (DPL) techniques
- Continuous suturing of the linea alba
- Subcuticular suturing of the skin
- Other basic and advanced interrupted suturing techniques

Features
- Latex free
- 3 layered pad represents the essential abdominal wall anatomy: skin & fat, linea alba, peritoneum
- The abdominal wall is held under tension by a balloon representing the intestines. The trainee should be able to enter the peritoneal cavity and close it again without bursting the balloon (damaging the intestines)
- Umbilici are represented around the edges of the pad
- Base is transparent to allow the trainer to observe and assess trainee competence

Package supplied
- 1 Abdominal Opening & Closure Pad Part No: 60307
  (Includes 2 peritoneums & 5 balloons)
- 1 AOCT base

Professional Abdominal Opening & Closure Trainer (AOCT)

Part No: 60430

An advanced abdominal wall pad incorporating epidermis, dermis, fat & linea alba. This pad, with separate peritoneal layer, is mounted on a base for teaching all surgical access and closure techniques to the abdomen.

Skills
In addition to those of the Standard AOCT:
- Incisions: linear, ellipse, flaps, shaped
- Subcuticular undermining
- Simple and advanced interrupted suturing techniques
- Subcuticular suturing
- Continuous suturing
- Stapling
- Use of adhesive strips

Features
In addition to those of the Standard AOCT:
- 5 layered system represents the abdominal wall anatomy: epidermis, dermis, fat, linea alba, peritoneum

Package supplied
- 1 Professional AOCT Pad Part No: 60431
  (Includes 2 peritoneums & 5 balloons)
- 1 AOCT base

Packed weight (kg) & dimensions (mm) 1.4 380 l 260 w 260 h

Packed weight (kg) & dimensions (mm) 1.45 kg 380 l 260 w 260 h