

Geisinger Commonwealth
School of Medicine



The Clinical Skills and Simulation Center at Geisinger Commonwealth School of Medicine

Task trainers

Female pelvic models (5)

Task trainer

The female pelvic trainer is anatomically accurate and tactile representation of the female pelvis. It is the ideal platform for hands-on examination as well as diagnosis of pathologies and abnormalities. It can be used for many levels of training, including:

- 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



Rectal exam models (5)

Task trainer

The rectal examination trainer comprises a realistic representation of the buttocks, anus and rectum enabling the practice of diagnostic skills associated with rectal examination. Skills include:

- Digital examination of the prostate
- Digital rectal examination
- Proctoscope insertion and use
- Professional-to-patient communication



Male catheterization models (2)

Task trainer

The advanced male catheterization trainer allows the trainee to learn urethral and supra-pubic catheterization. It has accurate male urethral anatomy that is realistically soft and compliant. The feel of the catheter passing along the urethra into the bladder corresponds closely to real life. Skills include:

- Correct handling of male anatomy
- Aseptic catheterization technique
- Catheter placement: accepts catheters from 14-16 French
- Fluid management
- Withdrawal of catheter
- Intermittent self-catheterization (ISC) when used with the optional self-catheterization stand
- Suprapubic catheter insertion and catheter management using Suprapubic Bung



Female catheterization models (2)

Task trainer

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- Correct handling of female anatomy
- Aseptic catheterization technique
- Catheter placement: accepts catheters from 12-16 French
- Fluid management
- Withdrawal of catheter
- Intermittent self-catheterization (ISC) when used with the optional self-catheterization stand
- Suprapubic catheter insertion and catheter management using Suprapubic Bung



Breast examination trainer (4)

Task trainer

Our breast examination trainer provides a highly realistic learning platform, featuring six 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. Skills include:

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



Eye examination trainer (4)

Task trainer

A sophisticated trainer for teaching and practicing the use of an ophthalmoscope, examining the ocular fundus and identifying diseases & conditions within the eye. Skills include:

- Use of an ophthalmoscope
- Examination technique
- Identification of up to 90 cases
- Communication skills

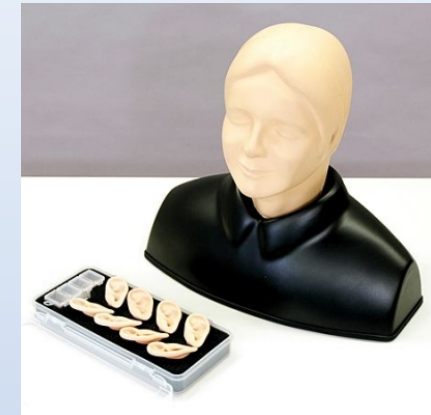


Ear examination trainer (4)

Task trainer

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. The model warns against painful insertion in the ear by beeping when in learning mode and displaying a warning light to the assessor when in instructor mode. Skills include:

- Ear examination with an otoscope
- Diagnosis of up to nine cases
- Earwax and foreign body removal



Intubation trainer (2)

Task trainer

Features anatomical landmarks including sternum and rib cage plus substernal notch. The manikin contains teeth, uvula, vocal cords, glottis, epiglottis, larynx, arytenoids cartilage, and trachea. Additional features include oral and nasal airway for intubation, esophagus and inflatable lungs and stomach, n.g. tube placement, bag valve mask ventilation.

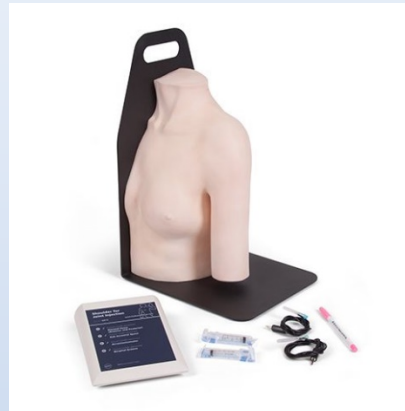


Shoulder joint injection trainer (3)

Task trainer

For practicing soft tissue joint injection used for the treatment of injuries and arthritis. Skills include:

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

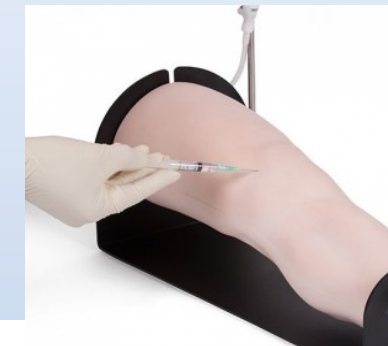


Knee aspiration trainer (3)

Task trainer

An anatomically accurate adult knee model for injection and aspiration of synovial fluid from the knee joint, from both the lateral and medial aspects, or by palpation. Skills include:

- 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 ultrasonic guidance or the palpation method
- Patient positioning and management
- Recognition of joint effusion
- Ballottement



Arterial puncture wrist trainer (3)

Task trainer

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

- Palpation of radial artery
- Needle insertion
- Blood collection



Advanced venipuncture arm trainer (3)

Task trainer

The advanced venipuncture arm features a closed blood flow system rather than the Bag and Stand supply that comes with the Standard model. It allows easy adjustment of the pressure. Skills include:

- Venipuncture
- IV Cannulation
- IV Infusion
- Professional-to-patient communication.



Lumbar puncture trainer (3)

Task trainer

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 include:

- 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



Central line trainer (3)

Task trainer

CentralLineMan features clinically relevant landmarks and anatomy; learners can practice performing full venous catheterization using ultrasound guided or blind/landmark insertion approaches at the subclavian, supraclavicular, and internal jugular vein sites. CentralLineMan includes clinically relevant internal and external landmarks that are palpable and or visible under ultrasound. Skills include:

- Practice full central venous catheterization using ultrasound guided or blind/landmark insertion approaches at the subclavian, supraclavicular, and internal jugular access sites.
- Practice placing patient in appropriate position per access site standards
- Gain experience in identifying and selecting appropriate access site based on patient anatomical variations
- Practice palpating external landmarks to identify vessel location
- Practice identifying unsuccessful vessel access by fluid feedback representing arterial puncture



Femoral line trainer (3)

Task trainer

Vascular Access Trainer for Femoral Line Placement. Skills include:

- Practice the full vascular access procedure using the femoral vein under ultrasound guidance or blind/landmark insertion techniques
- Practice palpating external landmarks to identify vessel location



Pediatric lumbar puncture trainer (1)

Task trainer

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

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

