

Rady Faculty of Health Sciences

# Equipment Catalogue

Clinical Learning and Simulation Program

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# Manikins

## Basic Infant Crisis Manikin (Quantity 1)



- Full-body infant manikin offers training and practice of infant airway management and CPR education.
- Anatomically correct in both size and detail.
- Landmarks include gum line, tongue, oral and nasal pharynx, larynx, epiglottis, arytenoids, false and true vocal cords, cricoid ring, tracheal rings, trachea, and esophagus.
- Intubation
- Suction techniques can be performed and evaluated.

## Mega Code Kid (Quantity 1)



- Airway for insertion of standard airway devices
- IO insertion - Realistic needle insertion and feel at the medial malleolus and tibial tuberosity
- IV insertion
- Auscultation of normal and abnormal heart, breath, and bowel sounds



## NewBorn HAL (Quantity 1)



### Airway

- Nasal or oral intubation, right mainstem intubation
- Head tilt/ chin lift, Jaw thrust
- Simulated suctioning techniques can be practiced
- Bag-Valve-Mask Ventilation
- Placement of conventional airway adjuncts, Endotracheal intubation using conventional ETTs
- Sellick maneuver brings vocal cords into view
- Select independent left and right upper lung sounds
- Accommodates assisted ventilation including BVM and mechanical support

### Circulation

- Bilateral IV arms with fill/drain sites
- Sub-Q and IM injection sites
- Intraosseous access at tibia

### Catheterization

- Foley catheterization - umbilicus with two arteries and one vein
- Umbilical catheterization - practice cut-downs
- Feeding tube insertion

## Premature Anne (Quantity 1)



Premature Anne remote with 8 pre-programmed scenarios written by the American Academy of Pediatrics and supports the Neonatal Resuscitation Program™.

**Neonatal Resuscitation Program™ scenarios are designed for the resuscitation of a 25-week old newborn with:**

- Positive-Pressure Ventilation and Continuous Positive Airway Pressure (CPAP)
- Positive-Pressure Ventilation and Endotracheal Intubation
- Positive-Pressure Ventilation, Endotracheal Intubation, and Chest Compressions
- Positive-Pressure Ventilation, Endotracheal Intubation, Chest Compressions, and Medication
- CPAP, Oxygen Management, and Oro-gastric Tube
- Positive-Pressure Ventilation, CPAP, Intubation, and Surfactant Administration
- Intubation, Chest Compressions and Umbilical Vessel Catheter Placement: Ethics and Care at the End of Life
- Resuscitation of 25-Week Newborn Twins

### **Airway Features**

- Anatomically accurate, realistic airway
- ET tube insertion
- Sellick Manoeuvre
- Positive Pressure Ventilation
- Right main stem intubation
- Suctioning
- OG/NG tube insertion

### **Breathing Features**

- Bilateral and unilateral chest rise and fall with mechanical ventilation
- Cyanosis

### **Breathing Complications**

- Unilateral chest movement (right main stem intubation) with mechanical ventilation

### **Cardiac**

- Realistic Compressions

### **Vascular Access**

- Patent, cutable umbilicus with venous and arterial access for bolus or infusion
- Simulated blood flashback upon cannulation of umbilical vein
- Peripheral IV access (dry ports only)

### **Sounds**

- Auscultation of lung sounds during ventilation, heart sounds, vocal sounds

**SimBaby, Laerdal (Quantity 1)**



SimBaby Features.pdf

**SimBaby Classic (Quantity 2)**



SimBaby Classic  
Features.pdf

## SimMan Essential (Quantity 2)



### Airway Skills/features:

- Controllable open/closed airway
- Head tilt/chin lift
- Jaw thrust with articulated jaw
- Suctioning (oral and nasopharyngeal)
- Bag-mask ventilation
- Orotracheal intubation
- Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation, retrograde intubation, fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy, surgical cricothyrotomy
- Variable airway resistance on/off
- Right main stem intubation
- Stomach distention
- Decrease range of cervical motion

### Eyes:

- Blinking eyes
- Eyes open, closed and partially open
- Eye inserts, manually change pupils

### Vascular Access:

- IV arm (right arm) establish IV
- Intraosseous access (tibia and sternum)

### Breathing Features:

- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO<sub>2</sub> exhalation, Normal and abnormal breath sounds – 5 anterior and 6 posterior auscultation sites

**Circulation Features:**

- BP measured manually by auscultation of Korotkoff sounds
- Carotid, femoral, radial, dorsalis pedis, posterior tibialis pulses and brachialis (only left side) synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected and logged

**Cardiac Features:**

- Extensive ECG library
- Heart sounds – four anterior locations
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

**Other Features:**

- Foley catheterization
- Bowel sounds – four quadrants
- Patient voice – pre-recorded sounds, custom sounds, instructor can simulate patient's voice

## SimJunior (Quantity 2)



### Airway

- Oral and nasal intubation, LMA insertion
- Oropharyngeal and nasopharyngeal airway
- Tongue edema
- Cricoid cartilage
- Head tilt & jaw thrust (no sensor)
- Left and right lungs can be either closed or open to allow ventilations
- Variable respiratory rates (0-60 breaths per minute)
- Auscultate upper airway sounds synchronized with breathing
- Detect & quantify the volume of mechanical ventilations (including no ventilation)
- Bag Valve Mask capable
- Normal and abnormal breath sounds

### Circulation

- Defibrillation and cardioversion, & pacing
- ECG monitoring
- Auscultate multiple heart sounds synchronized with ECG Bilateral carotid and unilateral brachial and radial (left side) pulses synchronized with ECG
- Pulse strength variable with BP
- CPR compressions generate palpable pulses, blood pressure wave form, and ECG artifacts.
- IV insertion (right arm and hand).
- IO access (right tibia)

### Other

- Auscultate bowel sounds, NG tube (Insertion only)
- Eye inserts for normal, dilated and constricted pupils, convulsions

## SimMan 3G (Quantity 3)



### **Airway**

- Auscultate lung sounds (normal and abnormal breath sounds)
- Unilateral and bilateral chest movement, Unilateral and bilateral & lobar breath sounds
- Oral Intubation, nasal Intubation, retrograde and fiberoptic intubation
- LMA, combitube and other airway placement
- Transtracheal jet ventilation
- Cricothyroidotomy – needle and surgical
- Right main stem intubation
- Stomach distention
- Variable airway resistance and lung compliance settings
- Tongue edema, pharyngeal swelling, laryngospasm, cyanosis, trismus
- Needle chest decompression
- Defibrillation and cardioversion and pacing
- Jaw thrust with articulated jaw

### **Circulation**

- Auscultate heart sounds
- Defibrillation, cardioversion and pacing
- IV insertion, IO insertion, IM injections
- ECG monitoring
- Detection of depth, release and frequency of compressions, real time feedback on quality of CPR

### **Catheterization**

- Urinary catheterization (urine output)

### **Other**

- Auscultation bowel sounds, patient voice, seizures, pupillary accommodation, eyes blinking

## SimMom (Quantity 1)



### Airway

- Auscultate lung sounds (normal and abnormal breath sounds)
- Oral Intubation (and fiberoptic)
- Nasal Intubation (and fiberoptic)
- Oropharyngeal/Nasopharyngeal airways
- Transtracheal Jet Ventilation
- LMA, combitube and other airway device placement
- Cricothyroidotomy, surgical and needle
- Chest tube Insertion
- Obstructed airway, tongue edema
- Head tilt/chin lift, jaw thrust
- Bag-Valve-Mask Ventilation

### Circulation

- Auscultate Heart Sounds
- Defibrillation, cardioversion and pacing
- ECG rhythm monitoring
- Pulse palpation
- IV insertion, IM injection, Subcutaneous Injection

### Other

- Auscultate Bowel Sounds
- Interchangeable pupils with normal, blown and constricted pupils
- Seizure
- Able to position on all fours, supine, semi-recumbent, left lateral, legs in stirrups, McRoberts position
- Urinary Catheterization



## SimNewB (Quantity 1)



### Airway/Breathing

- Auscultate lung sounds
- Oral Intubation
- Nasal Intubation
- LMA insertion
- Sellick maneuver
- Positive-pressure ventilation
- Right main stem intubation
- Needle Chest Decompression
- Bilateral and unilateral chest rise and fall with mechanical ventilation

### Circulation

- Auscultate Heart Sounds
- Extensive ECG Library with rates from 0 – 300bpm
- Heart sounds synchronized with the ECG
- Umbilical and brachial pulse
- Central cyanosis presentation

### Catheterization

- Patent, cutable umbilicus with venous and arterial access for bolus or infusion
- Intraosseous Insertion (bilateral)

### Other

- Vocal : Grunt breathing, crying, hiccups and others
- Interchangeable pupils with normal, blown and constricted pupils
- Movement in all four limbs: limp, tone, spontaneous motion and seizure

# Simulators

## Breathing Simulator ASL5000 (Quantity 1)



### Intended Use

Ventilator management training for neonatal through adult patients

### Features

- **Reproducible patients** - ensure consistent instruction and skills assessment.
- **Spontaneous breathing** controls - examine patient-ventilator interaction with a spontaneously breathing patient or one that responds passively to a ventilator.
- **Simulate coughs** and other extreme breaths. [See how it works.](#)
- **Real-time interactivity** - adjust patient parameters on the fly while simulation is running with the Interactive Control Panel. [See how it works.](#)
- **Script Editor** - assemble and launch preconfigured breathing profiles. [See how it works.](#)
- **Sophisticated modeling tools** - define one- or two-compartment models, non-linear compliance and resistance effects. [See how it works.](#)
- **Report-writing capability** - simplify skill assessment record keeping with the ability to print standard reports or generate Microsoft Word, Excel, and HTML compatible pages.
- **500Hz data sampling rate** - analyze details for ventilator triggering and other events.
- **Post-run analysis** - extensive data analysis package captures 80+ parameters for hours of trending and review, as well as flow, pressure, and volume waveforms. Export all captured data to ASCII (Excel-readable) formats with a mouse click. [See how it works.](#)
- **LabVIEW™ based** - work with a convenient graphic interface and custom tailor special applications.
- **Lightweight and portable** - just 22 lbs (10 kg) for easy transport and great usability

## Cardiac/Abdomen Ultrasound CAE Vimedix 3.3 (Quantity 1)



### Key Features

Dual system featuring two learning options, a manikin and virtual probe that replicates real-time visual, physical and ergonomic attributes of ultrasound scanning.

Palpable thoracic and pelvic bony landmarks, combined with motion tracking system, allow 6 degrees of freedom to align physical manikin with virtual anatomy in Vimedix software

Supports TTE, TEE and TGAUS ultrasound scanning on a single platform, with guidelines and training exercises  
Simulation of cardiac, lung and abdominal ultrasound images and functions 2D/3D/4D, Biplane, M-mode views  
MPR

Adjustable image settings (depth, viewing angle, gain, contrast)

Color flow Doppler and spectral Doppler (pulsed-wave and continuous-wave) of the heart

Color flow Doppler of the inferior vena cava for specific pathologies

Ability to complete measurements, including length/diameter, circumference and area

Echo report function, with automated calculations and drop-down menus consistent with typical echo scanning protocols and workflow

Zoom function for ultrasound images

Ability to freeze image and scroll through frames

Ability to add noise on ultrasound view to alter image quality and level of viewing difficulty

More than 200 available pathologies, with Stealth Mode option (hides pathology names)

Enable/disable animated 2D AR display of labeled anatomical structures, that can be moved/rotated to learn structure identification and spatial orientation; and bone, lung and abdominal artifacts on ultrasound display

Detailed cardiac and abdominal anatomy

Switch between split screen and single screen views of 2D AR display and ultrasound display

Self-directed instructional content modules that allow learners to practice in the absence of a live instructor:

Basic probe movements

Optimization of image settings

Obtaining views using Target Cut Planes (TCPs)

Echocardiographic measurements

## Cardiopulmonary Patient Simulator, Harvey (Quantity 1)



### Airway/Breathing

- Auscultate Lung Areas (total 6)

### Circulation

- Auscultate Heart Sounds (total 9)
- Cardiac Disease (total 30)
- Digitally Driven Impulses (total 12)
- Modifiable Amplitudes and Intensities

16 Headsets Available.

## Code Rhythm Simulator, CS1201 (Quantity 1)



### CS1201 Simulator Features:

- ECG waveforms
- Convert - simulate cardioversion by activating convert feature
- Defib discharge - indicator illuminates for two seconds when simulator is shocked by a defib set to 50J or more
- Pacer pulse - paced beat is displayed and indicator blinks off when simulator is paced by an external pacer. Use capture control to vary the pacing capture Level
- Connectors - V1, V2, V2, V4, V5, V6, RA, LA, LL, RL and PADS

## Ear Training and Simulation System, OtoSim 1 (Quantity 2)



- Realistic ear form and canal for students to practice and improve their otoscopic technique
- Images of various normal and pathological conditions of the middle ear and external auditory canal are projected inside the device for students to view
- Proprietary database of over 200 high resolution images from the Hawke Library to instruct, practice, and test students
- Detailed text description of ailments, ear and biopsy images provide sufficient material for instruction and self-guided tutorials

### **Software includes:**

- Introduction to otology
- External auditory canal (148 slides)
- Middle ear (150 slides)
- Specialist otology (34 slides)
- Self-assessment (28 questions)
- Software enables the instructor to interact with students by landmarking specific image characteristics using the marking tool

## Ear Training and Simulation System with Pneumatic Otoscopy, Otosim 2 (Quantity 1)



### Otosim 2

Content & Material:

Pathology – external auditory canal – acute otitis externa, cerumen, foreign bodies and more

Middle Ear – Normal Tympanic Membrane, temporal bone fractures, acute otitis media, serous otitis media, tympanocentesis, myringotomy and more

### Pneumatosim

- Identify and be familiar with the way the tympanic membrane behaves and looks when insufflated under various ear pathologies
- Pressure applied is measured and displayed on a pressure graph, and the ear drum moves with the amount of pressure applied to build student confidence and technique

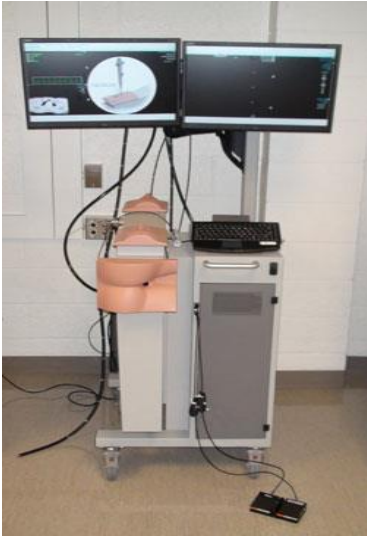


EndoMentor Suite (Bronch Mentor & GI Mentor), Symbionix (Quantity 1)



EndoMentor Suite.pdf

## EndoVR Endoscopy Simulator (Quantity 2)



The CEA endoscopic simulator is a computer based simulator with a haptic interface that provides force feedback to emulate the look and feel of an actual procedure. The simulator has interchangeable anatomical plates and CS1201 Simulator Features:

- ECG waveforms
- Convert - simulate cardioversion by activating convert feature
- Defib discharge - indicator illuminates for two seconds when simulator is shocked by a defib set to 50J or more
- Pacer pulse - paced beat is displayed and indicator blinks off when simulator is paced by an external pacer. Use capture control to vary the pacing capture Level
- Connectors - V1, V2, V2, V4, V5, V6, RA, LA, LL, RL and PADS

Scopes to allow for training in bronchoscopy, upper G.I and lower G.I procedures individually on a single platform.

### Bronchoscopy Modules

- Discuss the indications, contraindications and complications of flexible bronchoscopy and the skills necessary to perform a bronchoscopic examination of the upper and lower airway
- Describe and perform the correct technique for holding and manipulating the bronchoscope
- Discuss the anatomic structures external to the lungs that are relevant to the bronchoscopist and the spatial relationship of the tracheobronchial tree to adjacent anatomic structures
- Describe the procedural steps necessary to perform a complete bronchoscopic examination of the upper and lower airway
- Understand the anatomy of the upper and lower airway as viewed through a bronchoscope
- Visualize the structure of the tracheobronchial tree and identify a variety of endobronchial lesions.

## **Introduction to Bronchoscopy**

- Bronchoalveolar Lavage
- Endobronchial Sampling
- Transbronchial Needle Aspiration (TBNA)
- Pediatric Difficult Airways
- Endobronchial Ultrasound (EBUS)

## **Gastrointestinal Endoscopy modules**

- Discuss the indications, contraindications and complications of flexible esophagogastroduodenoscopy (EGD), endoscopic retrograde cholangiopancreatography (ERCP), sigmoidoscopy, and colonoscopy and the skills necessary to perform an endoscopic examination of the upper and lower GI tract.
- Describe and perform the correct technique for holding and manipulating the endoscopes.
- Discuss the anatomic structures of the GI tract and its spatial relationship to adjacent structures.
- Describe the procedural steps and be able perform a complete endoscopic examination of the upper or lower GI tract
- Understand the anatomy of the upper and lower GI tract as viewed through an endoscope.
- Visualize the GI tract and identify a variety of pathologic lesions.
- Sample pathologic lesions and remove polyps with a variety of cytological and biopsy methods.
- Canulate the duodenal papilla and evaluate the bile and pancreatic ducts with fluoroscopy.

## **Upper GI modules**

- Introduction to EGD
- Introduction to ERCP

## **Lower GI modules**

- Introduction to Flexible Sigmoidoscopy
- Flexible Sigmoidoscopy: Supplemental cases
- Introduction to Colonoscopy
- Colonoscopy: Biopsy
- Colonoscopy: Polypectomy

For complete product information see: <http://www.cae.com/en/healthcare/endoscopy.asp>

## LapVR Surgical Simulator for Laparoscopy Training (Quantity 1)



### Procedural Skills

- Adhesiolysis
- Running the bowel (small bowel obstruction)
- Suturing and knot tying
- Loop ligation

### Surgical Skills

- Laparoscopic cholecystectomy
- Laparoscopic Appendectomy
- Bilateral tubal occlusion
- Ectopic pregnancy
- Salpingo-oophorectomy

### Essential Skills

- Camera Navigation
- Peg Transfer
- Cutting
- Clip Application
- Needle Driving, Knot tying

## Ophthalmoscopy Training and Simulation Unit, OphthoSim (Quantity 1)

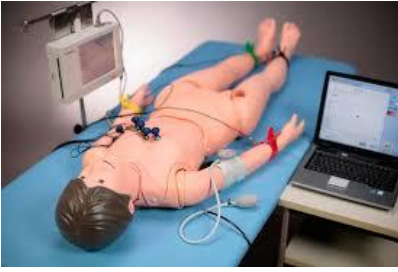


- Instrumented to detect user's movement and orientation
- Tracks user movements to control the display of the appropriate retinal region through the OphthoSim™
- Replicates the magnification of lens in the human eye
- Has an adjustable iris that dilates and constricts to add complexity
- Has a saccade function that can be activated to replicate different clinical conditions
- Training modules to practice & evaluate ophthalmoscopy technique
- Testing routines to rate diagnostic accuracy and efficiency
- Detailed descriptions of each clinical scenario

### Retinal pathologies including:

- Normal retinas
- Diabetic retinopathy
- Hypertensive retinopathy
- Papilledemas
- Retinal vascular diseases
- Retinal detachment
- Age related macular degeneration
- Tumours
- Glaucoma
- Optic Neuropathies
- Trauma

## “Physiko Plus” Physical Assessment Simulator (Quantity 1)



Physiko is a physical assessment simulator that is designed to aid students to perform a complete Physical Examination.

It allows you to teach 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 out-patients 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.

### **Skills**

- Pupillary reflex assessment
- Blood pressure measurement
- Auscultation of breath sounds
- Auscultation of heart sounds
- Auscultation of bowel sounds
- EKG assessment

## Sam II Student Auscultation Manikin (Quantity 2)



- Heart and lungs sounds can be heard simultaneously or separately
- 27 heart sounds
- 21 breath sounds
- 20 bowel sounds
- 4 carotid bruits.
- The instructor can alter the sound volume at any site
- Produce a pneumothorax in the chest
- Diminish lower lung sounds while maintaining normal volume at the upper chest
- Listen to severe aortic stenosis in the neck as well as over precordial areas
- Listen with own stethoscope

## ScanTrainer/Transvaginal Simulator (Quantity 1)



### Key Features:

- Real-feel haptic technology – replicates the feel of scanning a real patient
- Real patient scans – full anatomy of real patient scans concurrent with all planes. Doppler function to practice taking measurements.
- Learning management system – personalized platform to keep track of progress
- Brings all newly mastered theoretical and practical ultrasound skills together into an assessment tool to test students' diagnostic skills in transvaginal ultrasound.

## ScanTrainer/Transabdominal Simulator (Quantity 1)



### Key Features:

- Real-feel haptic technology
- TA probe manipulation skills module
- Real patient scans
- Learning management system – personalized platform through which users can access the extensive functionality



## Ventriroscope LIVE, LeCat's (Quantity 1)



- Hear and assess actual patient sounds and abnormal sounds from standardized patient or manikin
- Create your own pathology
- Bose speakers for classroom instruction
- Can teach blood pressure

### Sound Library:

<b>Cardiac I item #SC2001</b>	<b>Cardiac II item # SC2002</b>	<b>Pulmonary I item # SC2003</b>
Aortic insufficiency simulated Aortic stenosis Mitral stenosis simulated Quadruple rhythm (S3 and S4) Summation gallop (S3/S4 synchronous) Atrial fibrillation rate 80 Atrial fibrillation rate 120 Atrial fibrillation rate 180 Aortic sclerosis Mitral insufficiency (regurgitation) S2 split (narrow) S2 split (wide) Mitral regurgitation soft S2 split narrow at base S2 split wide at base	Hamman's crunch ASD fixed wide S2 split Bradycardia about 42 BPM Tachycardia about 120 Tachycardia about 180 Normal S1 S2 at apex, S1 louder Normal S1 S2 at base, S2 louder Normal S2 splitting at base with resp. Paradoxical S2 splitting at base with resp. One component pericardial rub Two component pericardial rub Three component pericardial rub	Egophony E to A normal in female Egophony E to A abnormal in female Egophony E to A normal in male Egophony E to A abnormal in male Bronchial BS inspiratory Bronchial BS expiratory Whispered pectoriloquy normal Whispered pectoriloquy abnormal Monophonic wheeze expiratory Mid to end expiratory wheeze Soft expiratory wheeze End expiratory wheeze

(continued)

Ventriloscope Library continued:

<p><b>Pulmonary II item # SC2004</b>          Subtle end expiratory crackles          Wheeze inspiratory          Diminished inspiratory BS          Diminished expiratory BS          Inspiratory stridor          Early inspiratory crackles          Mid inspiratory crackles          Diminished BS with early insp. crackles          Death rattle          End expiratory crackles          Pleural rub inspiratory          Pleural rub expiratory</p>	<p><b>Infant /Doppler item #2005</b>          Normal infant heart          Infant tachycardia at about 210          Infant heart rate 60          Patent ductus murmur with rate of 150          Fetal doppler with rate of 148          Placental Doppler with rate of 72          Doppler movement artifact          Thyroid bruit Grave's disease          Infant posterior chest          Infant respirations with crackles at 120          Infant Grunting          Infant bowel sounds</p>	<p><b>Percussion item # 2006</b>          Flat note          Dull note          Resonant note          Tympanitic note          Auscultatory percussion normal          Auscultatory percussion abnormal (mass)          Coin percussion normal          Coin percussion abnormal (pneumothorax)          Scratch percussion over liver          Scratch percussion not over solid organ</p>
<p><b>Murmurs Volume I item # 2007</b>          Aortic stenosis loud          Aortic stenosis medium loud          Aortic stenosis medium          Aortic stenosis soft          Aortic insufficiency (regurgitation) loud          Aortic insufficiency medium loud          Aortic insufficiency medium          Aortic insufficiency soft          Mitral insufficiency (regurgitation) loud          Mitral insufficiency medium loud          Mitral insufficiency medium          Mitral insufficiency soft</p>	<p><b>Murmurs Volume II item # 2008</b>          Mitral stenosis loud          Mitral stenosis medium loud          Mitral stenosis medium          Mitral stenosis soft          Mitral valve prolapse click/murmur not squatting          Mitral valve prolapse click/murmur with squatting          Mitral valve prolapse single click only          Mitral valve prolapse multiple clicks</p>	

# Task Trainers

## Airway Management Trainer, Child, Simulaids, (Quantity 2)



Features landmarks: uvula, vocal cords, glottis, epiglottis, larynx, arytenoid cartilage, trachea, esophagus, and inflatable lungs and stomach.

Can perform nasal and oral intubation.

Vocal cords are highlighted in white for easy laryngoscopic viewing.

## Airway Management Trainer, Infant, Laerdal, (Quantity 4)



- Anatomy of a 3-month-old infant.
- Realistic anatomy of the tongue, oropharynx, epiglottis, larynx, vocal cords and trachea
- Bag-Valve Mask ventilation
- Sellick Maneuver
- Intubation (oral and nasal)
- Laryngeal Mask Airway (LMA)
- Correct tube placement can be checked by practical inflation test
- Simulated stomach inflation

## Airway Management Trainer, Infant, Simulaids, (Quantity 4)



Features landmarks: uvula, vocal cords, glottis, epiglottis, larynx, arytenoid cartilage, trachea, esophagus, and inflatable lungs and stomach.

Can perform nasal and oral intubation.

Vocal cords are highlighted in white for easy laryngoscopic viewing.

## Airway Management Trainer, Neonatal, Laerdal, (Quantity 4)



- Intubation (oral and nasal)
- Bag-Valve-Mask ventilation
- Correct tube placement can be checked by practical inflation test

## Airway Management Trainer, Adult, Laerdal (Quantity 8)



- Oral and nasal intubation
- LMA (Laryngeal Mask Airway) and Combitube®
- Correct tube placement can be checked by practical inflation test
- Realistic anatomical features allow demonstration of Sellick Maneuver and laryngospasm
- Bag-Valve-Mask ventilation can be practiced
- Stomach inflation and vomiting situation can be simulated
- Provides visual inspection of lung expansion
- Provides auscultation of lung sounds
- Airway demonstration model is standard with each trainer



## Airway Trainer (cricothyroidotomy), Adult, Laerdal (Quantity 2)



Anatomically correct internal anatomy facilitates airway management skills using manual maneuvers and mechanical devices:

- Oropharyngeal and nasopharyngeal airway insertion
- Endotracheal and right mainstem intubation
- Needle or surgical cricothyrotomy
- Retrograde intubation
- Percutaneous transtracheal jet ventilation
- Bag-Valve-Mask ventilation
- Tracheal suctioning

## AirwayTrainer, Deluxe Difficult, Adult, Laerdal (Quantity 2)



Features a manually inflatable tongue to simulate obstructed airway and is designed for training the management of difficult airways.

- airway allows for insertion of standard airway devices with the addition of the LMA, Combitube and King LT
- Oropharyngeal and nasopharyngeal airway insertion
- Endotracheal and right mainstem intubation
- Needle or surgical cricothyrotomy
- Retrograde intubation
- Bag-Valve-Mask ventilation
- Tracheal suctioning

## Arterial Stick Arm Kit, Adult (Quantity 4)

Simulation of hand placement during performance of Allen's Test is possible



- Flexible wrist enables proper positioning
- Arterial pressure may be generated manually
- Artery palpation is possible
- Percutaneous puncture sites in both brachial and radial artery
- Infusible arteries with ability to pressurize system, enable blood backflow in syringe

## Arterial Arm, Infant, Baby Arti (Quantity 5)



Lifelike reproduction of an infant arm with bony structures which allows students to master the technique of neonatal radial artery puncture

## Baby Hippy (Quantity 2)



- Reproduction of the lower torso and limbs of a female newborn designed to train professionals in diagnosing both congenital hip dislocation and hip dislocatability.
- Lower torso and limbs of newborn female
- Dislocated left hip for practice of the Ortolani Jerk-Sign
- Lax right hip for performing the Barlow Maneuver

## Birthing PROMPT, Standard Nonepisiotomy (Quantity 3)



- Hybrid simulation, utilizing a human patient actress, adds realism to scenarios by providing real human interaction allowing participants to practice communication skills
- Anatomically accurate perineum and pelvic floor muscles, with bony pelvis
- The abdominal skin can be removed to display anatomical structures and fetal positioning

### **Representative full term baby with:**

- Palpable fontanel and suture lines
- Palpable clavicles and scapulae
- Detachable placenta with cord

### **Mother allows for multiple delivery positions and techniques:**

- Normal delivery
- Breech delivery
- Vacuum delivery
- Shoulder dystocia management
- Forceps delivery
- Delivery of placenta

## Birthing Baby (Quantity 4)



- Fully articulated body, weight 2.3 kg
- Palpable fontanelles and suture lines
- Palpable clavicles and scapulae
- Detachable placenta with cord

## Blood Pressure Training Arm (Quantity 4)



- Simulator allows the presetting of values for both systolic and diastolic pressures.
- Provides an excellent means to practice listening to and distinguishing blood pressure sounds prior to actual clinical experience
- Possible to audibly discern the five Korotkoff phases.

### **Control Unit Allows Instructor to:**

- Select systolic and diastolic setting
- Adjust volume
- Turn auscultatory gap on or off
- Adjust pulse rate
- Easily calibrate unit for use with any sphygmomanometer

### **Students:**

- Use normal procedure to place cuff on arm
- Check palpable pulse at the radial site
- Pump cuff

## Blood Pressure Training Arm, Palpable radial and brachial pulses (Quantity x2)



- Palpable brachial and radial pulse
- LCD guided operation
- Systolic, diastolic, heart rate and auscultatory gap are programmable
- Representation of both systolic and diastolic pressures
- Indication of gauge reading as pressure is increased or decreased
- Adjustable volume

## Central Line Man System with Articulating Head (Quantity 3)



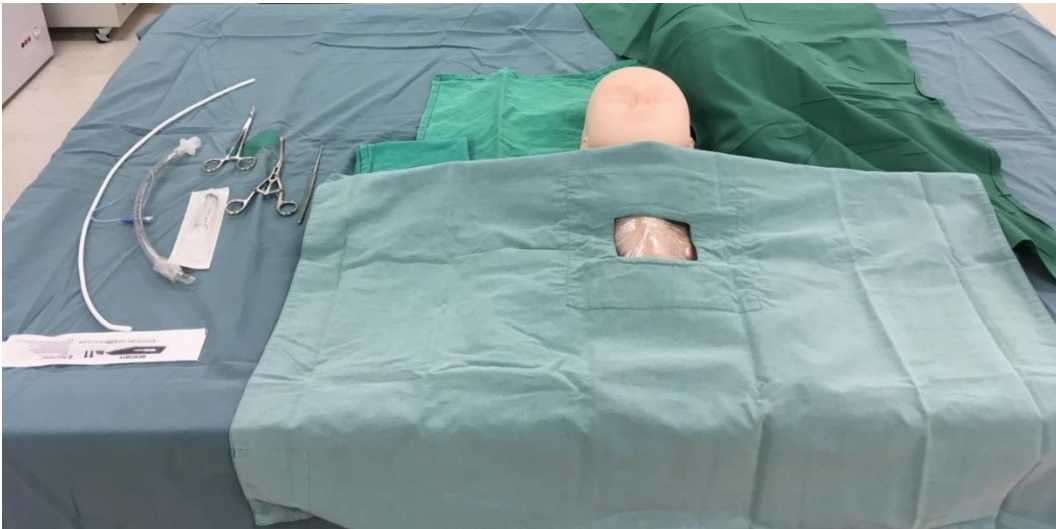
### Skill Development:

- Teach Central Vascular Catheterization using Subclavian, Supraclavicular, and Internal Jugular approaches
- Learn to use ultrasound guidance during catheter placement
- Gain an understanding about the landmarks significant to the procedure

### Features and Benefits:

- Excellent for ultrasound guided central venous access hands-on training
- Anatomically correct task trainer with landmarks
- Differentiates arterial and venous blood to show positive or negative results
- Self-sealing veins and skin for multiple cannulations
- Replaceable tissues allow for multiple uses
- Arterial pulse and proper landmarks are present to help avoid and detect errors

## Cricothyroidotomy Trainer (3D printed trach model with real pig skin) (Quantity 6)



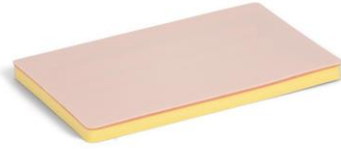
3D printed trach



Pig skin is used for skin on top of 3D printed trach

6 models can be used at one time. More can be made to use throughout a session. Please call front desk for more information 204-272-3070.

## Cutdown Pad (Quantity 2)



A multi-layered pad containing filled veins for practising venous cut down procedures.

Skills Gained:

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



## Ear Examination Trainer, (Quantity 2)



- The EAR Examination Simulator is designed for training in the examination of the external acoustic meatus and tympanic membrane with a direct otoscope.
- Easily interchangeable life-size, life-like, plug-in ears.
- Special graphical case contents provide exact case imaging through the otoscope.
- Examination possible from both left and right sides.
- Actual otoscopes can be used for training (10 otoscopes available).
- Diagnostic training using both the right and left ears is possible with 11 matching sets of ear models showing embedded tympanic membrane images.
- Anatomically correct ear models with soft material facilitate hands-on practice in clinical procedures such as straightening the auditory canal by pulling the auricle.
- The manikin neck can be tilted from side to side to learn head positioning.
- A normal case with a wider view is provided as an introductory level.
- Foreign body removal can be practiced using simulated earwax and/or small objects and a pair of ear models without eardrums.

### Cases Included:

- normal
- normal (large external auditory canal)
- serious otitis media; SOM
- mucoïd otitis media; MOM
- chronic suppurative otitis media; CSOM
- acute suppurative otitis media; AOM
- cholesteatoma
- tympanosclerosis
- traumatic perforations
- cerumen block
- practice of foreign substance removal (no eardrum image)

## Femoral Line Man System (Quantity 2)



### Skill Development:

- Central venous access using the femoral vein route
- Using ultrasound guidance during catheter placement
- Palpating anatomical landmarks significant to the procedure

### Features and Benefits:

- Anatomically correct body form with identifiable landmarks
- Differentiates arterial and venous blood to show positive or negative results
- Self-sealing veins and skin for multiple practices
- Replaceable tissue sets allow for multiple uses
- Arterial pulse and proper landmarks are present to help avoid and detect errors
- Ultrasound compatible for guidance during needle placement

## Foreign Body Ultrasound Trainer (Quantity 2)



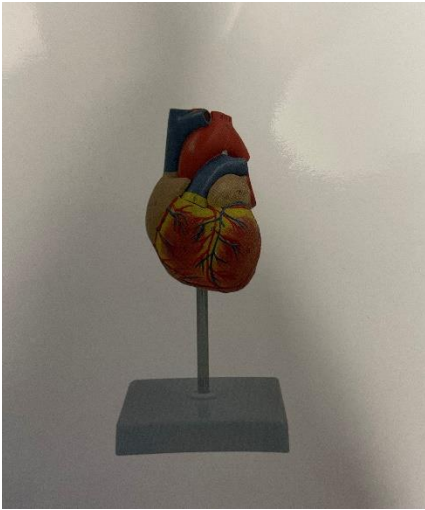
### Features and Benefits:

- Learn to use ultrasound to identify foreign bodies
- Realistic ultrasound image

### Foreign Bodies Included:

- Steel Shot 2 sizes: no. 2 and no. 4 buck
- Nail
- Wood splinter
- Needle – blunt
- Glass shards
- Bullet – post impact
- Metal fragments – tin snips

## Human Heart Model (Quantity 1)



2 pieces, life size model

## Human Skeleton (Quantity 1)



## Intraosseous Bone Models (Quantity 2 of each)



Models for use to practice Intraosseous Injection.

- Adult Humerus Training Bone
- Pediatric Humerus Training Bone
- Adult Proximal Tibia Training Bone
- Child Tibia Training Bone
- Infant Tibia/Fibula Training Bone
- Adult Distal Tibia/Ankle Training Bone

## Intraosseous (IO) Humerus Trainer (Quantity 1)



3 orientations that can be demonstrated to provide the correct simulation for application

## Intraosseous Infusion Leg, Pediatric (Quantity 2)



Simulates the leg of a six-year-old patient  
Tibia and tibial tuberosity palpation  
Tibia anterior surface location  
Medical malleolus palpation

## Intraosseous Training Leg, Adult (Quantity 2)



One B.I.G. (above left) – training leg  
Laerdal leg (above right): simulated marrow can be aspirated for verification of needle placement  
Medical administration and volume infusion up to 1000 ml  
Simulated tibia provides realistic resistance as needle enters the bone marrow cavity

## Intraosseous Training Leg, Infant (Quantity 2)



Designed for training of infant intraosseous infusion techniques.

Skills: 1. Intraosseous needle insertion. 2. Aspiraton of simulated bone marrow.

## IV Leg, Infant (Quantity 2)



Designed for training extremity venipuncture procedures and intravenous fluid administration in the superficial veins of the foot.

- Venous access in the medial and malleolus sites
- Venipuncture possible in medial and lateral malleolus sites
- Heel stick simulation
- Fluid may be infused for realistic flashback

## IV Training Arm, Adult (Quantity 8)



Available: 4 white male, 2 brown male, 2 tan male.

- Venipuncture possible in the antecubital fossa or dorsum of the hand
- Peripheral IV line insertion and removal
- Palpable veins enable site selection and preparation
- Infusible veins allow peripheral therapy with IV bolus or push injection method
- Peripheral IV line maintenance including assessment and rotation of site and dressing, solution and tubing change

## IV Training Arm (Multi-Venous system), Infant (Quantity 2)

This training arm allows students to practice peripheral intravenous therapy.

- Venipuncture possible in the antecubital fossa and dorsum of the hand
- Accessible veins include median, basilic and cephalic
- Arm will articulate to pediatric manikins and task trainers



## IV TruIV Block Ultrasoundable (TruCorp) (Quantity 2)



8 veins - 4 deep and 4 superficial, ranging from 4 mm to 8 mm in diameter  
Ultrasound guided IV cannulation

## Joint Aspiration Trainer, Knee (Quantity 1)

Training in the technique of synovial fluid aspiration.



- Patient posture and management
- Palpation techniques
- Identifying anatomical landmarks
- Aspirating synovial fluid from the knee joint from both lateral and medial aspects



## Joint Injection Model for Foot and Ankle (Quantity 1)



The purpose of the ankle injection trainer is for practicing soft tissue injection used for the treatment of injuries and arthritis.

### Skill Development:

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

## Joint Injection Model for Elbow (Quantity 1)



- For practicing soft tissue joint injection used for the treatment of injuries and arthritis.
- There are two different injection sites incorporated into this model.

### Skill Development:

- 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

## Joint Injection Model for Hand & Wrist (Quantity 1)



- An articulated model of the hand and wrist used for practicing soft tissue joint injection for the treatment of injuries and arthritis.
- There are four different injection sites, as well as the medial nerve, incorporated into this model.

### Skill Development:

- 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 Quervain's sheath
  - first metacarpal joint
- Precise placement of needle to avoid median nerve

## Joint Injection Model for Knee Aspiration & Injection Trainer, Ultrasound Capabilities (Quantity 2)



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 palpation or ultrasound-guidance.

### Skills Gained:

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

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

## Joint Injection Model for Shoulder (Quantity 1)



- For practicing soft tissue joint injection used for the treatment of injuries and arthritis.
- Five different injection sites incorporated into this model - Shoulder for Joint Injection.

### Skill Development:

- 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

## Knot Tying Trainer Ethicon (Quantity 24)



The Ethicon Knot Tying Practice Board enables learners to practice a variety of suturing and knot tying techniques that are applicable to all types of surgical procedures including:

- Square knot
- Surgeon's (friction) knot
- Deep tie
- Ligation around a hemostatic clamp
- Instrument tie
- Granny knot
- 

## Lumbar Puncture Trainer, Neonatal (Quantity 6)



- Reproduction of a neonatal infant positioned for the practice of lumbar puncture techniques.
- Lateral decubitus position
- Upright position
- Realistic interchangeable spine with spinal cord may be palpated for location of correct puncture site
- Fluid may be infused

## Lumbar Puncture Trainer, Infant (Quantity 4)



Use of the lateral decubitus and sitting positions for pediatric lumbar puncture

- Palpate external landmarks
- Proper technique for lumbar puncture (spinal tap) procedure on an infant
- Anatomically correct two week old infant with flexible body form
- Ultrasound compatible
- Visible and palpable landmarks include umbilicus, gluteal fold, iliac crest and vertebrae
- Insertion sites include L3-L4 and L4-L5
- Simulator can be positioned then flexed in the lateral decubitus or sitting position
- Flexible body form adds realism when flexing the infant - simulating moving the interspinous process from a neutral to open position
- Accurate needle placement allows for positive response and collection of simulated cerebrospinal fluid (CSF)
- Simulated epidural venous plexus and bony spinous process provides user with feedback for improper needle placement

## Lumbar Puncture/Epidural Trainer, Adult (Quantity 4)



### Skill Development:

- Practice lumbar puncture (spinal tap)
- Practice the epidural procedure
- Use ultrasound
- Features and Benefits:
- Fluid can be added to tissue
- Durable tissue for multiple procedures
- Position on its side or upright

## Micro-Premie Simulator (Quantity 2)



25-week ELBW (Extremely Low Birth Weight) neonate

### Features and Functions:

- Breathing - pulse bulb to manually simulate breathing rate volume.
- Ventilation - molded-in lung produces a visible chest rise when ventilated by mouth; trachea and pharynx are not anatomically correct, but will accept a functioning endotracheal tube.
- GI - one nostril will accept a functioning NG tube (tube passes through the body and liquids will either drain away from the body or into the diaper); optional stoma can be plugged into a permanent site on the abdomen.
- Umbilicus - soft, lifelike umbilicus has a patent vein and two arteries; umbilical stump functions like a cork, plugging into a small cavity molded into the abdomen (cavity can be used as a reservoir for blood drawn through a catheter or to receive fluids and the drain exits from the diaper area); a separate umbilicus represents an optional omphalocele.
- IV Access - several typical sites have embedded tubing that can accept an IV catheter; one is functional, allowing the administration of fluids, which will drain from the diaper area.
- Chest Tube - a permanent site in the baby's side accepts a nonfunctioning chest tube.
- Neural Tube Defect (Myelomeningocele) - An optional structure representing an open neural tube defect can be inserted into the back.
- Various monitors, sensors, electrodes, etc., can be attached to the manikin wherever needed.



## NG Tube and Trach Care Trainer, Laerdal (Quantity 3)



Torso task trainer designed for instruction in the care of patients with respiratory conditions and the practice of gastrointestinal care procedures via nasal and oral access.

## Paracentesis Trainer (Quantity 4)



### Skill Development:

Use ultrasound or landmarks during paracentesis

- Drain fluid from the peritoneal cavity
- Use midline or medial entry point to perform procedure
- Palpate anatomic landmarks significant to the procedure

### Features and Benefits:

- Allows for procedural accuracy
- Ultrasound compatible with replaceable tissue
- Anatomy includes superficial epigastric vessels, partial liver and partial spleen, rectus abdominal muscles, and mesentery intestines
- Anatomical landmarks include the pubis symphysis, iliac crest, and umbilicus
- Allows up to one liter of intraperitoneal fluid removal
- Replaceable tissue is durable and allows for repeated use
- Palpable anatomy and realistic needle response

## Pelvic Trainer Female (Quantity 4)



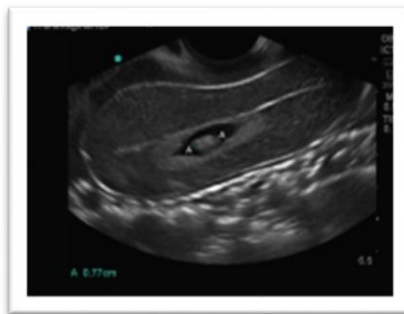
The pelvic trainers are used to practice:

- speculum insertion
- cervix visualization
- specimen collection for cervical cancer screening

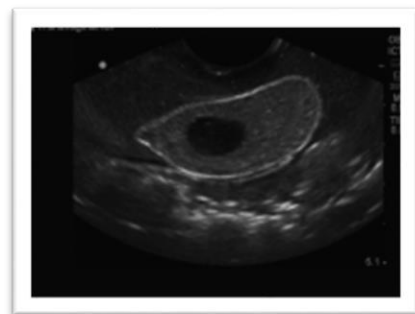
## Pelvic Ultrasound Trainer (Female) Blue Phantom, Intrauterine Pregnancy (Quantity 1)



7 week intrauterine pregnancy



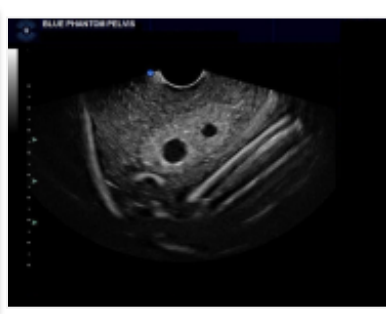
Sagittal u/s of midline uterus



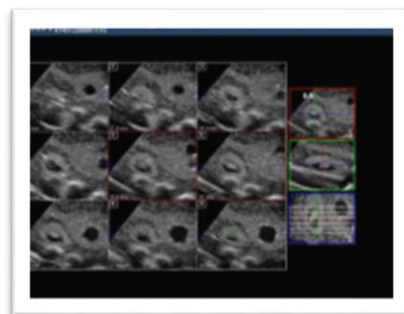
Ovary, corpus luteum cyst & ovarian follicle



Lower uterus & adnexa



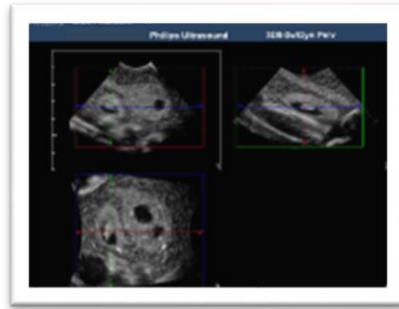
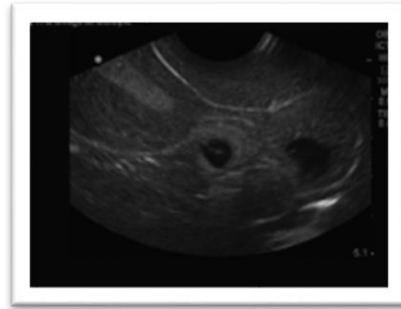
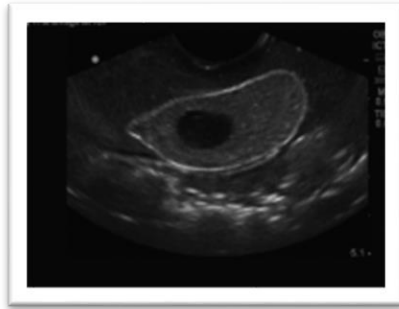
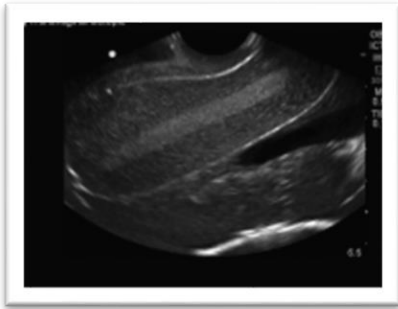
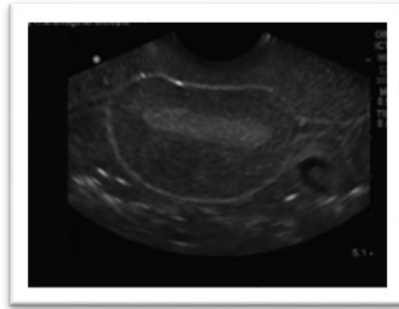
Ovary & ovarian follicles



3-d image IUP

- 1st trimester endovaginal ultrasound training mode
- Contains the endovaginal canal, cervical canal, bladder with bladder wall, uterus with endometrial stripe, 7 week gestational age fetus, amniotic sac, placenta, left and right ovaries, ovarian follicles, corpus luteum cyst, broad ligaments, bowel and colon, and accessory structures
- Performs well using any ultrasound imaging system

## Pelvic Ultrasound Trainer (Female) Blue Phantom, Ectopic Pregnancy (Quantity 1)



Ectopic 7 week gestational age fetus, amniotic sac, placenta

Endovaginal and cervical canal

Bladder with bladder wall, uterus with false decidual reaction, free fluid in cul-de-sac, left and right ovaries, ovarian follicles, corpus luteum cyst, broad ligaments, bowel & colon.

Pelvic Ultrasound Trainer (Female) General Pathology, Blue Phantom, (Quantity 1)



Midline of uterus with prominent endometrial echo and uterine fibroid



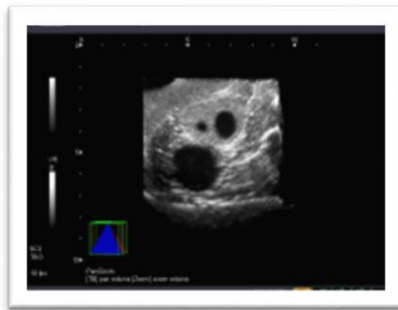
Sagittal u/s image of ovary with abscess tumour mass & ovarian corpus luteum cyst



Coronal image ovarian tumour or mass



Compound u/s image of uterus



Sagittal ovary with ovarian cyst



3-D u/s showing reconstruction of the uterus

## Premature Anne Task Trainer (Quantity 2)



- 25 week preterm infant manikin

### **Airway features**

- ET tube insertion
- Right mainstem intubation
- Positive pressure ventilation
  - Sellick maneuver
  - NG/OG tube insertion

### **Vascular Access**

- Umbilicus with venous and arterial access
- Internal Fluid reservoir

### **Pre-ported IV sites**

- Right saphenous vein
- Dorsum of left hand
- Left antecubital fossa

### **Breathing features**

- Mechanical chest rise and fall with ventilation

## Prostate Examination Trainer (Quantity 1)



Teach techniques of prostate examination with the Prostate Examination Simulator.

- Four prostate glands representing:
- STAGE A GLAND - Benign, slightly enlarged, but otherwise normal prostate gland
- STAGE B GLAND - A discrete, hard nodule is palpable in the upper right quadrant. This simulates a beginning stage of carcinoma
- STAGE C GLAND - The spread of carcinoma is demonstrated in this gland. The small nodule has increased in size and has become an external hard mass on the surface of the gland
- STAGE D GLAND - This gland is totally replaced with carcinoma. The entire gland will feel hard and irregular



## Rectal Examination Trainer (Quantity 4)



- 2 interchangeable perineums: normal for prostate exam and pathology with polyp and ca.
- 5 interchangeable prostates: normal, bilateral benign, unilateral benign, bilateral carcinoma, unilateral carcinoma

### Skills:

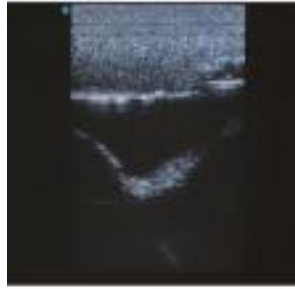
- Digital examination of prostate
- Digital rectal examination
- Insertion and use of anoscope and proctoscope (CLSF does not own scopes)

## Suture Practice Arm (Quantity 2)



- Provides 3 pre-existing wounds
- Cut for additional wounds
- Realistic skin texture with wrinkles, pores, and visible fingerprints

## Thoracentesis Trainer, Ultrasoundable (Quantity 4)



- Practice ultrasound-guided thoracentesis and pleural effusion discovery.
- Simulates a partial torso with anatomical landmarks including the scapula, ribs, diaphragm, pleural cavity, and lung.
- The open top allows the instructor to provide feedback on procedural concepts by allowing students to visualize the catheter depth and placement when inserted into the pleural cavity.
- A positive fluid flow offers users feedback when pleural effusions are accurately accessed.

## Tracheostomy Care Simulator, Life/form (Quantity 2)



### Procedures That Can Be Performed on This Simulator

- Oral-pharyngeal suctioning
- Nasotracheal suctioning
- Tracheal suctioning via tracheostomy

### Tracheostomy Care

- Dressing changes
- Stoma cleansing
- Changing of the tracheostomy tube
- Cuff inflation
- Changing of tracheostomy ties

### Anatomy Present on Simulator

- Oral passages
  - Nasal passages
  - Pharynx
  - Epiglottis
  - Trachea
  - Esophagus
  - Stoma
  - Right and left bronchi
- Epiglottis

## Tracheostomy Head, Smiths Medical, (Quantity1)



### Product Features

- an ideal simulation mannequin for practicing the Percutaneous Tracheostomy procedure using the ULTRAPerc® Single or Serial Dilator methods or the Griggs Dilating Forceps method
- Ideal for patient demonstration and education of tracheostomy tube change, care and management
- Supports nurse training and education
- Great for practicing the Cricothyroidotomy procedure using Mini-Trach II Seldinger kit

### Product Benefits

- Up to 16 procedures can be performed on a single trachea, which is replaceable along with the highly realistic skin

## Trauma Child (Quantity 1)



A simulated five year old breathes, bleeds, and has replaceable tissues for a first cut experience.

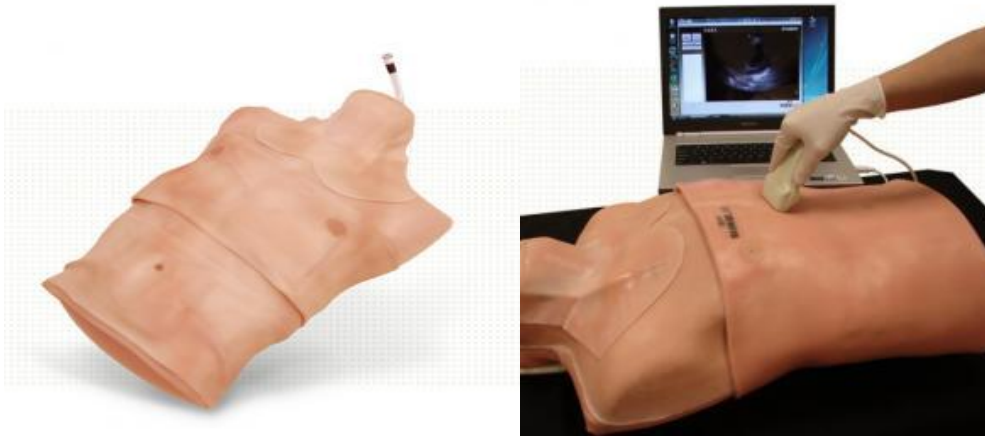
### System Procedures:

- Cricothyroidotomy
- Percutaneous Tracheostomy
- Needle Decompression
- Pericardiocentesis
- Chest Tube Insertion
- Diagnostic Peritoneal Lavage

### Features and Benefits:

- Anatomically correct five year old body form with articulating head
- Replaceable tissues bleed when cut, enhancing realism and obscuring student's vision
- Airway system powered by internal ventilator; providing an airway response to the trachea, lungs & thoracic cavity
- Anatomically and tactilely correct tissues are easy to replace and offer each student a first cut experience

## Trauma Man (Quantity 3)



### Procedures:

- Cricothyroidotomy simulation
- Chest Tube Insertion simulation
- Pericardiocentesis simulation
- Needle Decompression simulation
- Percutaneous Tracheostomy simulation
- Diagnostic Peritoneal Lavage simulation
- IV Cutdown simulation

### Features and Benefits:

- Anatomically correct surgical simulator with all the pertinent landmarks for each procedure
- The realistic body form skin and replaceable tissues have the highest fidelity touch and dissection of any simulated tissue available today
- Realistic, bleeding tissues add to suspension of disbelief, enhancing the simulation
- TraumaMan is the most flexible training platform available for advanced trauma training - it can be combined with high fidelity simulators to run scenarios in team training situations.

## Ultrasound Neonatal Head Phantom Abnormal (Hydrocephalus) & Normal

2 variations of phantoms for training of neonatal head ultrasound

**US-14a  
normal**



**US-14b  
abnormal**



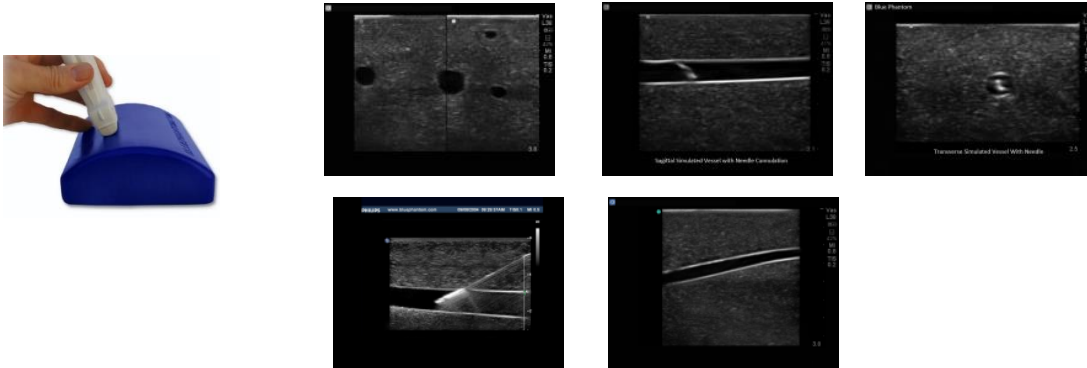
### **Normal**

- Skull
- Anterior fontanel
- Posterior fontanel
- Cerebrum
- Cerebellum
- Brain-stem
- Lateral ventricle
- Ventricle
- Third cerebroventricle
- Fourth ventricle
- Septum lucidum

### **Abnormal**

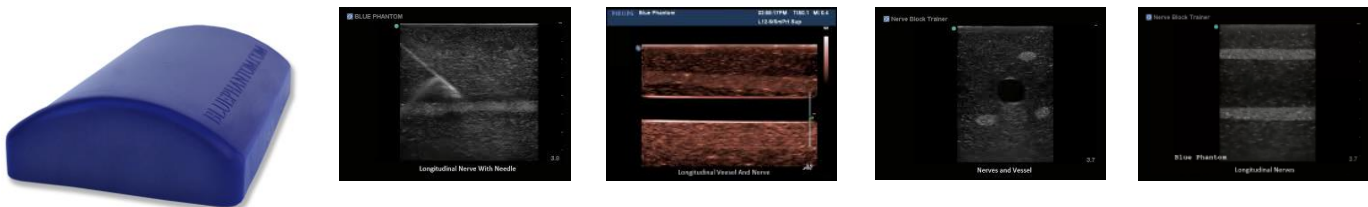
- Skull
- Anterior fontanel
- Posterior fontanel
- Hypertrophied lateral ventricle

## Ultrasound Training Block Model, Branched 4 Vessel, CAE (Quantity 1)



- Contains four vessels of various sizes including 4mm, 6mm and 8mm branched vessels positioned at a variety of depths within the phantom
- Develop, practice and maintain ultrasound guided vascular access skills
- Learn to acquire and interpret images of vessels used for venipuncture and vascular access
- Positive fluid flow when vessels are accurately accessed
- Fluid can be injected into the model to verify needle tip location (automatically expelled)
- Use with any ultrasound imaging system with appropriate transducer
- Practice using ultrasound system controls

## Ultrasound Training Block Model, Regional Anesthesia, CAE (Quantity 3)



- Gain imaging and procedural efficiencies using this realistic regional anesthesia and vascular access ultrasound training model
- Learn to acquire and interpret ultrasonographic imaging of nerves and vessels
- Dual-purpose training phantom; excellent for both ultrasound guided vascular access and regional anesthesia peripheral nerve block training.
- Inject simulated anesthetics to verify needle tip location and to practice the entire regional anesthesia procedure
- Contains three simulated vessels and nerves
- Positive fluid flow when vessels are accurately accessed
- Fluid can be injected into the model to verify needle tip location (automatically expelled)



## Urinary Catheterization Simulator, LifeForm, Female (Quantity 2)



- Simulators allow demonstration and practice in urinary catheterization.
- Simulators are useful for anatomical identification and demonstration of perineal care.
- The normal feeling of resistance and pressure will be experienced as a catheter is passed through the urethra, past the sphincter, and into the bladder.
- When the catheter enters the bladder, artificial urine (water) will flow from the catheter just as in a real patient, and the cuff must be completely deflated before the catheter is removed.
- The labia minora can be spread apart naturally to reveal the clitoris, urethral opening, and vaginal introitus.

\*NOTE: A Fr. Silicone Foley catheter can be used if extreme care is taken to inflate the cuff only when it is in the proper position. Just as in a real patient, the cuff must be completely deflated before the catheter is removed. Improper use of a Foley can result in damage to the simulator, just as when using a Foley catheter with a real patient.

## Urinary Catheterization Simulator, LifeForm, Male (Quantity 2)



- Simulator allows demonstration and practice in urinary catheterization without embarrassment or discomfort to the patient or the students.
- Simulator is useful for anatomical identification and demonstration of perineal care.
- A lubricated catheter can be inserted in the urethral orifice, passed through the urethra, and into the bladder.
- When the bladder is successfully entered, artificial urine (water) will flow from the catheter.
- The student will feel the normal restrictions caused by the mucosal folds, bulbous urethra, and the internal urethral sphincter, just prior to entrance into the bladder.
- The experience teaches proper positioning and movement of the penis to allow the catheter to pass easily with a minimum of discomfort to the patient.
- Just as in a real patient, the cuff must be completely deflated before the catheter is removed.

**\*NOTE:** Improper use of a Foley catheter can result in damage to the simulator, just as when using a Foley catheter with a real patient.

## Vascular Access Child System (Quantity 1)



### Access Sites:

- Internal Jugular
- Subclavian
- Femoral

### Skill Development:

- Vascular Catheterization
- Using ultrasound guidance during catheter placement
- Identification and palpation of anatomic landmarks significant to the procedure

### Features and Benefits:

- Anatomically correct, soft tissue five year old with internal and external landmarks
- Differentiates arterial and venous blood to show positive or negative results
- Self- sealing veins and skin for multiple practices
- Natural tissue resistance and flashback of blood
- Replaceable tissue sets allow for multiple uses
- Quick set up: tissues are self-contained and come pre-filled with blood
- Arterial pulse and proper landmarks are present to help avoid and detect errors
- Easily adjustable venous pressure to simulate complications
- Ultrasound compatible - responds to ultrasound for guidance during catheter placement
- Hand pump that provides arterial pulse.

## Venatech IM and Sub Q Simulator (Quantity 5)



Fits on the area of the deltoid muscle and /or vastus lateralis, rectus femoris, ventrogluteal, and dorsogluteal areas

- Fluid filled vessels deep in the simulated tissue, possibility of seeing simulated blood in the hub of the needle on aspiration

## Vertebral Column Model



- Life size vertebral column model
- Shows all significant features of each vertebra, including vertebral body, spinous and transverse processes, vertebral notch and spinal canal
- Complete pelvis, sacrum, occipital bone, vertebral artery and nerve branches
- Herniated disc between the 3<sup>rd</sup> and 4<sup>th</sup> lumbar vertebrae

# MOULAGE

## Victim Injury Set for BTLIS (Quantity 1)



A set of wound lay-ons, blood splats, and simulated blood designed for use on manikins or humans to simulate injuries required in the BTLIS Instructor's Manual

Types of wounds included:

Distended jugular vein, burns 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> degree, projectile entry/exit – large and small, exposed viscera, compound fracture, simulate injuries required in 12 patient scenarios (BTLIS Instructor's Manual), wound lay-ons (more than 30), contusions, lacerations abrasions, cervical spine injury, flail chest segment, implanted object, stab wound, closed fracture, blood splats

# Equipment



## Automatic External Defibrillator (Zoll Plus 2 Trainer) (Quantity 2)



- Allows instructors to have students experience what it's like to save a life with the AED Plus.
- Choose from four different fixed rescue scenarios or have complete manual control of the entire rescue.
- A wireless remote lets you control multiple AED Plus Trainer2s.
- Instructors can set up a rescue scenario and download to the AED Plus Trainer2 in seconds.

## Anesthesia Machine Drager NarkoMed GS (Quantity 2)



**\*Drawers configured as per WRHA – one for adult anesthesia and one for pediatric anesthesia.\***

### Backboard, with Head Immobilizer, Ferno (Quantity 3)



### Blood Pressure Cuff Auto (Quantity 3)



Accurate, easy-to-use automatic or manual blood pressure systems.

- Easy to use one button operation
- “ Fuzzy Logic” smart inflation system in OSZ5 is faster and more comfortable for the user
- Large, easy-to-read display shows systolic, diastolic, and pulse measurements simultaneously
- Universal cuff fits all arms
- Convenient battery door makes it easy to change batteries

## Bone Injection Gun Trainer EZ-IO (Quantity 4)



### .Needle Sizes

15 mm Needle Set, 25 mm Needle Set, 45 mm Needle Set, 25 mm Needle Set (blue hub P/N 9001)

## Bronchoscope, Ambu A-view monitor with Ambu a-Scope



aView User  
Guide.pdf

### Cart Anesthesia Side Cart Adult (Quantity 1)



Configured as per WRHA Anesthesia Side Cart Adult O.R.

### Cart Anesthesia Side Cart Pediatrics (Quantity 1)



Configured as per WRHA Anesthesia Side Cart Pediatric O.R.

### Cart Anesthesia Difficult Airway Adult (Quantity 1)



Configured as per WRHA Anesthesia Difficult Airway Cart, Adult.

**Cart Code Blue Adult (Quantity 3)**



**Configured as per WRHA Adult Code Blue cart**

**Cart Code Blue Pediatric (Quantity 2)**



**Configured as per Health Sciences Center Pediatric ICU**

**Cart Code Blue Neonatal (Quantity 1)**



**Configured as per Health Sciences Center Neonatal Intensive Care Unit**

**Cart Emergency Resus Airway Adult (Quantity 2)**



**Configured as per the Emergency Room Difficult Airway Cart at Health Science Center**

**Cart Emergency Resus Adult (red) (Quantity 1)**



**Configured as per Health Science Center Emergency Resuscitation Room**

**Cart Intravenous Supplies Adult (Quantity 1)**



**Configured as per Health Sciences Centre Resuscitation Room**

## Cast Cutter and Cast Vac, Stryker (Quantity 1)



### Stryker 940 Cast Cutter and 986 Cast Vac

- Dual speed cutting
- Compatible with 986 Cast Vac
- Operates independent of Cast Vac
- Three blades to fit multiple cast types

## Ceiling Lift Waverly Glen C-625 (Quantity 1)



### TECHNICAL SPECIFICATIONS

- Capacity: 625 lbs (283 kg)
- Digital Display: Indicates number of lifts and battery level
- Diagnostic Mode: Via digital display. Displays lower limit switch and upper limit switch
- Soft Start/Stop: For both Vertical and Horizontal displacement
- Manual Emergency Lowering & Raising
- Electrical emergency Lowering
- Battery Indicator: Audio and Visual
- Centrifugal breaking system
- Strap Length: Up to 2175 mm tested to 3600 lbs
- Lifting Speed: 4.5 cm/second (average lifting speed)
- Horizontal Speed: Adjustable, 4 preset settings



## Colleague Volumetric Infusion Pump single channel (Quantity 2)



Guardian Library configured as per WRHA.

## Cuff Pressure Gauge with hook (Quantity 1)



## Defibrillator Zoll R Series (Quantity 8)



- Configured per WRHA standards

## Defibrillator Zoll X Series (Quantity 1)



- Configured per WRHA standards

## Electrocardiograph Welch Allyn CP 100 (Quantity 2)



- High-resolution thermal printer generates full-sized standard and customized reports
- Lead quality graphic saves valuable time by highlighting poor connections
- Full alphanumeric keyboard and LCD screen for easy patient data entry

## Feeding Pump Enteral Kangaroo 924 (Quantity 1)



- Features pre-set volume and overflow infusion safeguards to ensure the correct and consistent delivery of nutrition
- The Kangaroo™ 924 pump is used exclusively with the Kangaroo™ 924 pump sets.

## Fluid Warmer Ranger 245 (Quantity 1)



**Glidescope Cobalt AVL (Quantity 1)**



**Glidescope GVL (Quantity 1)**



**Glidescope Saturn Biomedical (Quantity 1)**



## High/Low Treatment Table (Region 3 Section) (Quantity 5)



- electric hi/lo from 46 to 94 cm controlled by foot pedals accessible from all sides of the table
- 3 section treatment platform to accommodate a wide variety of patient positioning
- gas assisted head section pivots up and down independent of the chest section
- fold away side panels allow easy access to cervical and shoulder region of patient
- gas assist elevates the foot section with the quick-release grab bar up to 80 degrees
- integral skin foam (i-Skin) allows slight contouring for patient comfort and security
- dual lever retractable caster system
- lifting capacity 204 kgs

**Please consult CLSF Room Bookings for the rooms that house the treatment tables.**

## Infant Warmer Hill-Rom Stabilet (Quantity 1)



Bed platform can be set level and with various degrees of forward tilt and backwards tilt

## Infusion Pump Baxter AS50 (Quantity 2)



## Integrated Wall System 767, Welch Allyn (Quantity 11)



- Welch Allyn MacroView Otoscope With Throat Illuminator
- Welch Allyn 3.5 V Coaxial Ophthalmoscope with LED Lamp
- Welch Allyn PanOptic Ophthalmoscope
- Welch Allyn SureTemp Plus electronic thermometer
- Welch Allyn Wall Aneroid

## Intubation Fiberscope, Portable, Olympus LF-GP (Quantity 1)



## Intubation, Fiberoptic, Olympus LF-2 (Quantity 2) and LF-1 (Quantity 2)



## Intubation, Light Source, Olympus (Quantity 4)



## Intubation, Olympus (CV-170) HD Video System, OTV-S7H-N Camera Head (Quantity 1)



## Lithium Ion Rechargeable Handle with charging base Welch Allyn 3.5V (Quantity 10)



120 minutes of on-time  
Fits all Welch Allyn 3.5 V instrument heads

### Attachments Available:

- Welch Allyn MacroView Otoscope With Throat Illuminator (quantity 10)
- Welch Allyn 3.5 V Coaxial Ophthalmoscope with LED Lamp (quantity 10)
- Welch Allyn PanOptic Ophthalmoscope (Quantity 2)



3.5V Coaxial

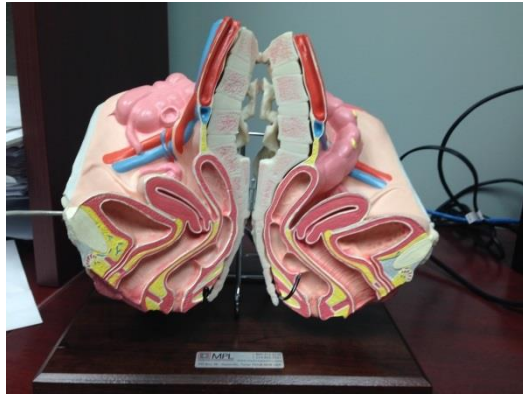
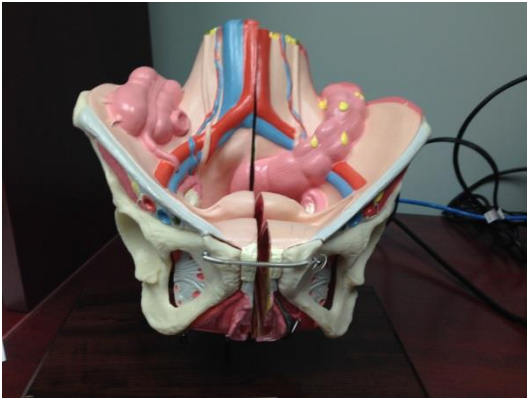


Macroview Otoscope



Panoptic Ophthalmoscope

## Pelvis Model, Obs/Gyne (Quantity 1)



### Features:

- Pelvic bones, sacrum, coccyx and lumbar vertebrae L-3 through L-5
- Soft like-like tissue and vessels of female pelvis
- Sagittally sectioned; opens like a textbook to reveal the following the rectum, anal canal, internal anal sphincter
- Bladder with orifice of ureter and urethra
- Three pubourethral ligaments
- Cervical OS plus body
- Myometrium
- Isthmus
- Fundus

## Pedi-Sleeve, Ferno Medkids™ (Quantity 2)



The Medkids™ Pedi-Sleeve quickly adapts standard adult backboards for pediatric immobilization of patients ranging in size from 12 lbs. to 60 lbs. Repositionable, crescent shaped compressible head blocks, restraint straps, and a self-contained Pneumatic Positioning Device (PPD) ensure patients are secure and fully immobilized.

- Rolls into a self-contained carrying case to store in small compartments, drawers, or under bench seats
- Versatile strap configurations with the adjustable three-point harness system
- X-ray translucent

## Portable Suction, LCSU 4 (Quantity 1)



### Features

- Click-in-place 300 ml canister, no vacuum tube needed
- 800 ml canister option when extra volume is needed
- Internal integrated filter systems for all canisters
- High efficiency filter kit (for 800 ml solution)
- HEPA rated bacterial filter
- Latex free
- Children vacuum range area (marked in blue) on the control panel
- Battery run time: Approximately 45 minutes (free flow)



## Pulse Oximeter Edan Instruments Handheld H100B (Quantity 2)



- Compact & lightweight
- Battery charger stand design
- LCD display
- Real-time clock
- Pitch tone
- Advanced SpO2 module with equivalent performance as the industry leaders
- Real-time measurements display
- Plethysmogram display
- Trend table and trend graphs
- Long working-time on battery only
- Large storage capacity

## SamPelvic Sling II (Quantity 2)



For stabilization of pelvic fractures with the correct force

## Scale Healthometer 402KL (Quantity 2)



- Weigh in pounds or kilograms
- Capacity x Resolution (Pounds) 390 lb x 1/4 lb
- Capacity x Resolution (Kilograms) 177 kg x 100 g
- Base Construction Steel

## Spirometer MicroLoop (Quantity 2)



- MicroLoop spirometer's functions can be easily accessed using the high definition color touch screen.
- Fully compliant to ATS/ERS 2005 standards.
- 2,000 patient memory.
- Fully configurable, allowing up to 41 indices to be selected including, a choice of predicted values and languages.
- Full flow volume and volume time curves for on-screen inspection of maneuvers and internationally recognized, on-screen test quality prompts.
- Option to direct print to external printers using USB connection.

## Microloop spirometer continued:

**TESTS PERFORMED:** FVC, SVC

**MEASUREMENTS Forced (FVC):** FEV1, FVC, PEF, FEV1/FVC, FEV6, VC, FEV.75, FEV3,FEV.75/VC, FEV.75/FVC, FEV1/VC, (FER), FEV3/VC, FEV3/FVC, FEV.75/FEV6, FEV1/FEV6, FEF25 (MEF75), FEF50(MEF50), FEF75 (MEF25), FEF25-75 (MMEF), FEF50/VC, FEF50/FVC, MMEF/FVC (FEF25- 75/FVC), FIV1, FIVC, PIF, FIV1/FIVC (FIR), FIF25 (MIF75), FIF50 (MIF50), FIF75 (MIF25), R50 (FEF50/FIF50), MET25-75, FET, MVV (ind)

**Relaxed (SVC):** VT (TV),Ti, Te, Ti/Ttot, EVC, IVC, IC, VT/Ti (TV/Ti), IRV, ERV, FR

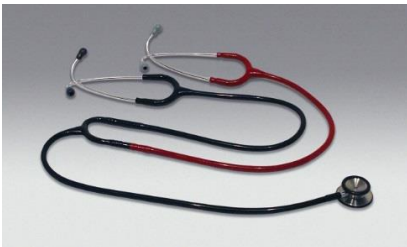
**Volume Range:** 0.1 to 8L (Gold Standard Turbine 0.1 to 9.99L)

**Flow Range:** 0.2 to 15 L/s

**Accuracy:** +/- 3% to ATS Recommendations

<http://www.carefusion.com/medical-products/respiratory/cardio-pulmonary-diagnostics/pulmonary-function-testing/spirometers/microloop.aspx>

## Stethoscope, Adult, Littman 2 Classic Teaching Stethoscope (Quantity 2)



Each of the two sections, 40"/102cm , one in black, one in burgundy, allows you to listen to body sounds using either a traditional bell or a diaphragm. The diaphragm side features 3M's 'tunable technology' allowing you to hear low and high frequency sounds by simply applying light or firm pressure to the chest piece.

## Stethoscope, Adult, Prestige (Quantity 12)



Equipped with a solid double-headed chest piece made of stainless steel

### Stethoscope, Infant, Proscope 676Y (Quantity 3)



The proscope 676, infant dual-head stethoscope. chrome plated zinc combination chestpiece with 25mm diaphragm and bell.

### Stethoscope, Pediatric, Littmann 2 Classic (Quantity 4)



Designed for smaller frames with a 1 inch traditional bell on one side coupled with a traditional diaphragm on the other side

### Stretcher, 28Z ProFlexx Chair Cot (quantity 1)



#### SPECIFICATIONS

Cot Height Folded (Minimum) 9" (22 cm)

Raised (Maximum) 33" (84 cm)

Loading Height 27" (68½ cm)

Raised 75" (190 cm)

Overall Width 25" (63 cm)

Chair Maximum Height 55" (140 cm)

Chair/Cot Weight 69 lb (31.2 kg)

Load Limit 700 lb (318 kg)

### Stretcher Gynnie OB/GYN Stretcher, Stryker (Quantity 1)



Retractable fifth wheel. Dual pedestal hydraulics to help optimize stability.  
Four wheel, steel ring brakes with dual side and head activators to help secure platform and accessibility.

### Surgery Table Amsco 2080L (Quantity 1)



Weight Capacity: 300 lbs

### Syringe Pump Medfusion 3500 (Quantity 2)



## Ultrasound System SONOSITE EDGE 2 (Quantity 1)



Sonosite Edge  
2.pdf



### HFL38xi I

13-6 MHz Linear

Applications:

breast, lung,  
musculoskeletal,  
nerve, ophthalmic, small  
parts, arterial, venous



### rP19x II

5-1 MHz Phased

Applications:

abdominal, cardiology,  
lung,  
ob, orbital, TCD

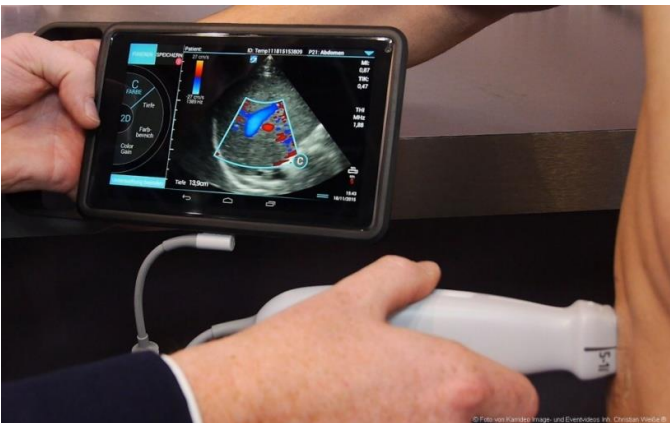


### rC60xi III

5-2 MHz Curved

Applications: abdominal,  
musculoskeletal, nerve, ob, gyn

## Ultrasound System Sonosite iViz (Quantity 1)



Sonosite iviz.pdf

**Transducers:** 5-1 MHz – abdominal, cardiology, lung, obstetrics

10-5 MHz – Breast, lung musculoskeletal, nerve ophthalmic, vascular

## Ultrasound Sonosite M-Turbo (Quantity 1)



Sonosite  
M-Turbo.pdf

## Sonosite X-Porte (Quantity 2)



Sonosite X-Porte  
User Guide.pdf

## Transducers



Abdominal, Neonatal,  
Nerve, Venous

Abdominal, Lung

Arterial, Breast, Lung,  
Musculoskeletal, Nerve,  
Small Parts, Venous

## Ultrasound GE Vscan Pocket (Quantity 2)



Vscan pocket ultrasound unit is intended for the following applications:

- Cardiac adult and pediatric
- Abdominal
- Pediatric
- Urology
- Fetal
- Peripheral vascular
- Thoracic/Pleural motion and fluid detection

## Ventilator Babylog 8000 plus neonatal ventilator (Quantity 1)



Can be used with manikins for scenarios, etc.



## Ventilator Puritan Bennett™840 Ventilator



## Walkie-Talkie, Motorola XPR 6550 Two Way Radio (Quantity 12)



3 channels available for use

## Walking Cane with ice pick, adjustable (Quantity 2)



Adjustable height 31" – 39"

## Warming Unit 3M Bair Hugger Model 750 (Quantity 2)



### Bair Hugger 750 Features:

- Hose-end temperature sensing ensures accurate air temperature delivery
- Three temperature sensors and increased airflow for quicker response
- Temperature settings track and report forced-air warming therapy duration
- Over-temperature, calibration, built-in hour meter and fault code reporting via the front panel - no need to open the unit

## Wheelchair, Airgo IC (Quantity 1)



- Proprietary contact points are easy to clean & disinfect
- Dual axle positions allow varying seat heights
- Maximum weight capacity: 300 lbs (136 Kg)
- Latex free

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