Clinical Learning and Simulation Facility

Catalogue

Revised June 2019
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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
- Designed for use with an uncuffed endotracheal tube measuring up to 1/8" (4 mm) inside diameter.
- Suction techniques can be performed and evaluated.

Mega Code Kid (Quantity 1)

- Airway for insertion of standard airway devices
- ECG monitoring: interpretations using standard clinical monitors with extensive library of rhythms
- 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

- Multiple upper airway sounds synchronized with breathing
- Nasal or oral intubation, Right mainstem intubation
- Sensors detect depth of intubation
- Airway may be obstructed, Block right lung, left lung, or both lungs
- 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
- Control rate and depth of respiration and observe chest rise
- Automatic chest rise is synchronized with respiratory patterns
- Select independent left and right upper lung sounds
- Accommodates assisted ventilation including BVM and mechanical support
- Simulated spontaneous breathing
- Variable respiratory rates and inspiratory/expiratory ratios
- Bilateral chest rise and fall
- Unilateral chest rise simulates pneumothoraces
- Normal and abnormal breath sounds

Circulation

- Heart sounds may be auscultated and are synchronized with ECG
- Pulse sites synchronized with BP and heart rate
- Bilateral IV arms with fill/drain sites
- SubQ and IM injection sites
- Intraosseous access at tibia
- Chest compressions are measured and logged
- Multiple heart sounds, rates and intensities
- ECG rhythms are generated in real time & heart sounds synchronized with ECG
- Fontanelle, umbilical and bilateral brachial pulses synchronized with ECG

Catheterization

- Foley catheterization - umbilicus with two arteries and one vein
- Umbilical catheterization - practice cutdowns
- Feeding tube insertion
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 Orogastric 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 mainstem 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 mainstem intubation) with mechanical ventilation

Cardiac
- Realistic Compressions

Vascular Access
- Patent, cuttable 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
Airway

- Oropharyngeal and nasopharyngeal airways
- Bag-Valve-Mask ventilation
- Oral Intubation and nasal intubation
- Sellick Maneuver
- LMA insertion
- Fiberoptic intubation
- Variable lung compliance, variable airway resistance
- Tongue edema, pharyngeal swelling, Laryngospasm, cyanosis
- Decreased lung compliance
- Right mainstem intubation
- Spontaneous breathing with variable rate, depth and regularity
- Bilateral and unilateral chest rise and fall
- Auscultate lung Sounds: Normal, course crackles, fine crackles, stridor, wheezes and rhonchi
- See-saw respiration
- Retractions
- Pneumothorax
- Unilateral chest movement, unilateral breath sounds
- Thoracentesis mid-clavicular
- Chest tube insertion

Circulation

- ECG library with rate from 20-360
- CPR compressions generate palpable pulses, blood pressure waveform, and generate artifacts on ECG
- Auscultate heart sounds: Normal, systolic murmur, holosystolic murmur, diastolic murmur, continuous murmur and gallop
- Defibrillation, pacing, and cardioversion
- IV access: antecubital fossae, dorsum of the hand and long saphenous vein
- Intraosseous (IO) insertion – bilateral

Other

- Feeding tube insertion, gastric distention
- Fontanel can present as normal, sunken, or bulging
- Torso motion
- Vocal Sounds: Crying, content, coughing, and hiccup
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
- CO2 exhalation, Normal and abnormal breath sounds – 5 anterior and 6 posterior auscultation sites
Pharmacology:
- Extensive formulary
- Manual drug recognition

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 waveform, 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
- LMA, combitube and other airway placement
- Retrograde and fiberoptic intubation
- 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 and Chest Drain
- 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
- Realistic compression depth and resistance
- Detection of depth, release and frequency of compressions, real time feedback on quality of CPR
Catheterization
- Urinary catheterization (urine output)

Other
- Auscultation bowel sounds
- Secretions: eyes, ears, nose, mouth, (blood, mucous, CSF, diaphoresis)
- Patient voice
- Moulage
- Eyes blinking slow, normal, fast, winks, opens and closes eyes, pupillary accommodation
- Convulsions (different degrees of seizures)
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 mainstem 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, cuttable 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 Echo Simulator, Vimedix (Quantity 1)

- Transesophageal echo (TEE) and Transthoracic echo (TTE) simulator
- Real-time ultrasound imaging simulator including transducers, computer simulator, and extremely realistic human patient mannequin
- Perform a comprehensive echocardiogram using computer generated echo simulation
- On-demand access to a broad range of normal and pathology cases with a variety of body types which can be scanned in real-time: over 50 cases currently available with more being consistently added
- Augmented reality feature provides real-time 3D graphic representation of the cardiac structures, cross sectional anatomy, and transducer location
- Cardiac echo simulator which bridges the gap to understanding anatomy and improve the time to imaging competency
- Simultaneously display 3D graphic representation of how the heart works along with real-time cardiac echo images

*VIMEDIX Pathology Packages as of February 3, 2015:

Transthoracic Echocardiography (TTE) Module

- Dilated Cardiomyopathy – Severe Biventricular Systolic Dysfunction
- Hyperdynamic Left Ventricular Systolic Function
- Normal Heart
- Recent Anterior Myocardial Infarction with Pericardial Effusion

Cardiac Package 1

- Anterior Myocardial Infarction in a COPD Patient
- Biologic Prosthetic Valve in Aortic Position
- Dilated Cardiomyopathy – Mild Left Ventricular Systolic Dysfunction
- Dilated Cardiomyopathy – Very Severe Left Ventricular Systolic Dysfunction in a COPD Patient
- Left Pleural Effusion
- Left Ventricular Apical Aneurism with Thrombus
- Mechanical Prosthetic Valve Bileaflet in Aortic and Mitral Position
- Mechanical Prosthetic Valve (Tilting Disk) in Mitral Position
- Normal Heart in COPD Patient
- Tamponade

*VIMEDIX Pathology Packages as of February 3, 2015:
Cardiac Package 2 (VIMEDIX Pathology Packages continued)

- Acute Inferior Myocardial Infarction
- Acute Lateral Myocardial Infarction
- Aortic Valve Infective Endocarditis
- Asystole
- Coarse Ventricular Fibrillation
- Dilated Cardiomyopathy – Mild Left Ventricular Systolic Dysfunction in a COPD Patient
- Dilated Cardiomyopathy – Severe Left Ventricular Systolic Dysfunction
- Fine Ventricular Fibrillation
- Pulmonary Hypertension
- Pulmonary Hypertension in a COPD Patient

Cardiac Package 3

- Acute Inferior Myocardial Infarction
- Acute Lateral Myocardial Infarction
- Acute Right Ventricular Myocardial Infarction
- Aortic Dissection – Type B
- Aortic Stenosis – Valvular
- Bicuspid Aortic Valve
- Billowing Mitral Valve – Two leaflets
- Dilated Cardiomyopathy – Severe Left Ventricular Systolic Dysfunction
- Myxoma
- Right Pleural Effusion

Montreal Heart Institute Package

- Amyloidosis
- CMP – Dilated
- CMP – Hypertrophic
- Ebstein’s Anomaly – ASD
- LV Apical Thrombus
- Mitral Valve Prolapse
- Mitral Valve – Rheumatic Disease
- Myxoma
- Takotsubo
- VSD-CIV Post Infarct
Fast Package 1 (VIMEDIX Pathology Packages continued)

- Free Fluid – Above the Spleen with Hemothorax
- Free Fluid – Bilateral Renal Reflection (small)
- Free-Fluid - Hepatorenal Reflection (Morrison’s Pouch – large)
- Free-Fluid – Retrovesical Reflection (medium)
- Free-Fluid – Retrovesical Reflection (small)
- Free-Fluid – SpleenoRenal reflection (small)
- Free-Fluid – Suprasplenal
- Left Lateral Trauma
- Small Pericardial Effusion
- Spleen Rupture
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
Realistic earform 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
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

LapVR Surgical Simulator for Laparoscopy Training (Quantity 1)

Procedural Skills
- Adhesiolysis
- Running the bowel (small bowel obstruction)
- Suturing and knot tying
- Loop litigation

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 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
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
Ventriloscope 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:**

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

VentriloScope Library continued:

<table>
<thead>
<tr>
<th><strong>Pulmonary II item # SC2004</strong></th>
<th><strong>Infant /Doppler item # 2005</strong></th>
<th><strong>Percussion item # 2006</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtle end expiratory crackles</td>
<td>Normal infant heart</td>
<td>Flat note</td>
</tr>
<tr>
<td>Wheeze inspiratory</td>
<td>Infant tachycardia at about 210</td>
<td>Dull note</td>
</tr>
<tr>
<td>Diminished inspiratory BS</td>
<td>Infant heart rate 60</td>
<td>Resonant note</td>
</tr>
<tr>
<td>Diminished expiratory BS</td>
<td>Patent ductus murmur with rate</td>
<td>Tympanic note</td>
</tr>
<tr>
<td>Inspiratory stridor</td>
<td>of 150</td>
<td></td>
</tr>
<tr>
<td>Early inspiratory crackles</td>
<td>Fetal doppler with rate of 148</td>
<td>Auscultatory percussion</td>
</tr>
<tr>
<td>Mid inspiratory crackles</td>
<td>Placental Doppler with rate of 72</td>
<td>normal</td>
</tr>
<tr>
<td>Diminished BS with early insp.</td>
<td>Doppler movement artifact</td>
<td>Auscultatory percussion</td>
</tr>
<tr>
<td>crackles</td>
<td>Thyroid bruit Grave’s disease</td>
<td>abnormal</td>
</tr>
<tr>
<td>Death rattle</td>
<td>Infant posterior chest</td>
<td>(mass)</td>
</tr>
<tr>
<td>End expiratory crackles</td>
<td>Infant respirations with crackles at 120</td>
<td>Coin percussion normal</td>
</tr>
<tr>
<td>Pleural rub inspiratory</td>
<td>Infant Grunting</td>
<td>Coin percussion abnormal</td>
</tr>
<tr>
<td>Pleural rub expiratory</td>
<td>Infant bowel sounds</td>
<td>(pneumothorax)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Murmurs Volume I item # 2007</strong></th>
<th><strong>Murmurs Volume II item # 2008</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aortic stenosis loud</td>
<td>Mitral stenosis loud</td>
</tr>
<tr>
<td>Aortic stenosis medium loud</td>
<td>Mitral stenosis medium loud</td>
</tr>
<tr>
<td>Aortic stenosis medium</td>
<td>Mitral stenosis medium</td>
</tr>
<tr>
<td>Aortic stenosis soft</td>
<td>Mitral stenosis soft</td>
</tr>
<tr>
<td>Aortic insufficiency (regurgitation) loud</td>
<td>Mitral valve prolapse</td>
</tr>
<tr>
<td>Aortic insufficiency medium loud</td>
<td>click/murmur not squatting</td>
</tr>
<tr>
<td>Aortic insufficiency medium</td>
<td>Mitral valve prolapse click/murmur with squatting</td>
</tr>
<tr>
<td>Aortic insufficiency soft</td>
<td>Mitral valve prolapse single click only</td>
</tr>
<tr>
<td>Mitral insufficiency (regurgitation) loud</td>
<td>Mitral valve prolapse multiple clicks</td>
</tr>
</tbody>
</table>
Task Trainers
Airway Management Trainer, Child (x2) Simulaids

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 (Quantity 4), Laerdal

- 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 (4), Simulaids

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 (Quantity 4), Laerdal

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

Airway Trainer, 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
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 2)

- Hybrid simulation, utilizing a human patient actress, adds realism to scenarios by providing real human interaction allowing participants to practice communication skills
- The Force Monitor system provides both instant feedback and graphical records as to the force applied to the baby during delivery
- 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 Standard (Quantity 2)

- Fully articulated body
- Weight 2.3 kg
- Palpable fontanels and suture lines
- Palpable clavicles and scapulae
- Detachable placenta with cord

Birthing Baby Force Sensitive (Quantity 1)

- Fully articulated body
- Force monitoring system including computer software package for simultaneous force display, measurement and recording of data
- 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 1)

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
Central Line Man System (Quantity 2)

Skill Development:

- Central Vascular Catheterization, using Subclavian, Supraclavicular, and Internal Jugular approaches
- Using ultrasound guidance during catheter placement
- Palpating anatomic landmarks significant to the procedure

Features and Benefits:

- Excellent for ultrasound guided central venous access hands-on training
- Anatomically correct human torso with landmarks
- Differentiates arterial and venous blood to show positive or negative results
- Self-sealing veins and skin for multiple cannulations
- Replaceable tissue sets allow for multiple uses
- Arterial pulse and proper landmarks are present to help avoid and detect errors
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
- mucoid 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
Introsseous 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 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
Correction needle insertion and blood aspiration
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:
Intraosseous needle insertion
Aspiration 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

Joint Aspiration Trainer, Knee (Quantity 2)

This specialized model is used for 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.
- This model of the upper and lower right arm is positioned accordingly for the treatment of both Golfer's and Tennis elbow.
- 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-Preemie 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 (Quantity 3)

- Realistic 1st trimester endovaginal ultrasound training model excellent for training clinicians in the psychomotor skills associated with transvaginal ultrasound procedures
- Superb ultrasound imaging characteristics
- Accurately mimics the feel and imaging characteristics of an actual endovaginal ultrasound exam
- 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
- Tissues match the acoustic characteristics of real human tissue so when you use your ultrasound system on our training models, you experience the same quality you expect from imaging patients in a clinical environment
- Performs well using any ultrasound imaging system
- Practice using ultrasound system controls
- Excellent for 3-D and 4-D ultrasound imaging and reconstruction
- Excellent for validating clinical competency
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
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 3)

- 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.
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 ULTRAperrc® 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
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.
2 variations of phantoms for training of neonatal head ultrasound

**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 2)

- Feels and cannulates like real human tissue
- Contains four vessels of various sizes including 4mm, 6mm, and 8mm branched vessels positioned at a variety of depths within the phantom
- Positive fluid flow when vessels are accurately accessed
- Learn to acquire and interpret imaging of vessels used for venipuncture

Practice imaging skills such as; using ultrasound system controls, transducer positioning and movement, recognition of vessels in soft tissue, using ultrasound to target individual linear vessels and using the more complex branched vessel anatomy to refine and advance users approach for ultrasound guided vascular access procedures.

Gain experience by choosing to guide needles to individual vessels or for more advanced training, target overlapping branched vessels at different depths as you would experience in the human patient. Once users accurately access the vessels within the model, fluid flow provides the user with positive feedback that they have accessed the targeted vessel.
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.
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 3rd and 4th lumbar vertebrae
MOULAGE
Victim Injury Set for BTLS (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 BTLS Instructor’s Manual

Types of wounds included:

Distended jugular vein, burns 1\textsuperscript{st}, 2\textsuperscript{nd}, and 3\textsuperscript{rd} degree, projectile entry/exit – large and small, exposed viscera, compound fracture, simulate injuries required in 12 patient scenarios (BTLS 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
The B.I.G. Bone Injection Gun Trainer with Reloading Device allows continued practice on the foam block or manikins.

The BIG Reloading System is a quick solution for easily reloading the non-sterile, demo BIG devices.

The kit includes:
- 1 x Demo B.I.G. device
- 1 x Instructional CD
- 4 x Safety Latches
- 1 x Foam
- 1 x B.I.G. user manual
- 1 x Reloading device with instruction leaflet
- 1 x Reloading device

The B.I.G. can be used with SimMan 3G.
Bone Injection Gun Trainer EZ-IO (Quantity 4)

EZ-IO provides the medical professional immediate vascular access to the central circulation within seconds, delivering medications, intravenous fluids and blood products to adult and pediatric patients alike. With a specially designed cutting IO needle and small power driver, the EZ-IO allows the clinician complete control — avoiding the use of force. EZ-IO provides rapid, smooth entry into the bone’s medullary cavity, creating an immediate conduit to the central circulation.

**Needle Sizes**

15 mm Needle Set (pink hub P/N 9018)
Designed for use in patients weighing 3-39 kilograms, and for patients with minimal tissue over insertion sites.

25 mm Needle Set (blue hub P/N 9001)
Designed for any patient weighing more than 39 kilograms, or for patients who have too much tissue over the insertion site for the 15 mm Needle Set to be used.

45 mm Needle Set (yellow hub P/N 9079)
Designed for patients weighing more than 39 kilograms who have excessive tissue over the targeted insertion site (e.g. edema, large musculature, obesity). The 45 mm Needle Set is ideal for the humerus site in patients over 39kg
Bone Injection Gun Bone Models (Quantity 2 of each)

Models for use to practice Intraosseous Injection.

- Humerus Training Bone
- Pediatric Humerus Training Bone
- Adult Proximal Tibia Training Bone
- Child Tibia Training Bone
- Infant Tibia/Fibula Training Bone
- Distal Tibia/Ankle Training Bone
Cart Anesthesia Side Cart (Quantity 1)

Configured as per WRHA Anesthesia Side Cart

Cart Anesthesia Difficult Airway (Quantity 1)

Configured as per WRHA Difficult Airway cart.
Cart Code Blue Adult (Quantity 3)

Configured as per WRHA Adult Code Blue cart

Cart Code Blue Pediatric (Quantity 1)

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 (Quantity 1)

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

Cart Intravenous Supplies (Quantity 1)

IV supplies as per WRHA

Cart Emergency Resus (Quantity 1)

Configured as per Health Science Center Emergency Resuscitation Room
Cart Emergency Resus Bedside, Red (Quantity)

Configured to HSC resus beside drawer and table

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)
- Lift Motor: 24VDC
- 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
- Emergency Stop: Easily Accessible
- Overload Circuit Protection
- Low Battery Disconnect System
- Battery Indicator: Audio and Visual
- Low battery Indicator: Via digital display and audio tone
- 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
- Respects electromagnetic interference standards
**Colleague Volumetric Infusion Pump single channel (Quantity 2)**

The Colleague Volumetric Infusion Pump single channel, can be used for the following applications - parenteral fluids, drugs, electrolytes, whole blood and blood products, intravenous, intra-arterial, subcutaneous, irrigation and epidural applications, can also be used for neonatal applications. It includes Automatic tube loading, 8 configurable personalities, a dose calculator, a label library and volume history.

Guardian Library configured as per WRHA.

**Defibrillator Zoll M Series (Quantity 2)**

12 lead ECG is available in standard analog for fax transmission or digitally for real-time transition with virtually any available communication technology.

Defibrillation, cardioversion, and pace modes Biphasic

**Defibrillator Zoll X Series (Quantity 1)**

Biphasic defibrillation, cardioversion, pacing
Electrocardiograph Welch Allyn CP 100 (Quantity 2)

- A 12-lead resting ECG that provides accurate measurements
- Optional MEANS ECG interpretation software for a second opinion
- 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

Endoscope/Intubation Fiberscope Olympus LF-2 (Quantity 1)

- The LF-2 provides exceptional flexibility and maneuverability for a tracheal intubation fiberscope while still maintaining the same thin diameter its predecessor - the LF-1 - was known for.
- The LF-2’s insertion tube has a combination of flexibility and stiffness for easier insertion and navigation into the trachea and easier placement of endotracheal/endobronchial tubes
- A large 1.5mm channel permits improved aspiration of secretions
- Incorporating Olympus' advanced optics along with a 90° field of view, the LF-2 provides excellent image quality and visualization to make it easier for you to quickly and successfully perform flexible tracheal intubation.
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)

- The 3M™ Ranger™ blood and fluid warming systems with SmartHeat technology adapt to virtually any fluid warming need from KVO to 30,000 mL per hour.
Glidescope Cobalt AVL (Quantity 1)

AVL=Advanced airway views:

- Digital colour monitor
- With digital-quality resolution
- With anti-reflective screen
- User interface features intuitive user controls and status icons
- Reusable video baton
- With digital-resolution camera
- Choice of 2 sizes
- Designed for preterm to morbidly obese patients
- Choice of 5 sizes (GVL® 0, 1, 2, 3, 4)
- Supplied in sterile packaging, ready for use
- Unique blade angulation
- Advanced resolution output for OR theater viewing
Glidescope GVL (Quantity 1)

- Colour monitor with anti-reflective screen and NTSC video output
- Reusable blades with high-resolution camera for real-time view of the airway and tube placement
- Anti-fogging mechanism resists lens clouding and secretions
- Unique angulation
- For small child to morbidly obese patients
- Choice of 4 sizes (GVL® 2, 3, 4, 5)
- GlideRite® Rigid Stylet included - complements the angle of GlideScope video laryngoscopes to facilitate quick intubation
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 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)

- Provides accurate, continuous or intermittent infusion of intravenous solutions, drug solutions, whole blood, and packed red blood cells.
- The pump is indicated for infusion via intravenous (IV), intra-arterial (IA), epidural, or subcutaneous routes of administration.
- Can be piggybacked into an ongoing infusion line to deliver secondary solutions automatically, precisely, and economically.
- Infusion rates are programmable from 0.01 to 438 mL/hr.
- Accepts standard disposable syringes from 1 mL to 60 mL in size.
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

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

- 120 minutes of on-time
- Half the weight of traditional 3.5 V handles
- Fits all Welch Allyn 3.5 V instrument heads

**Attachments Available:**

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

- Halogen HPX® lamp illumination
- Polarizing filter eliminates corneal reflection
- Detect corneal abrasions with the cobalt blue filter

Otoscope, Macroview, Welch Allyn (Quantity 10)

- Tip grip for secure fastening and ejection of ear specula
- Fiber optics produce cool light with no reflections, no obstruction
- Twice the field of view and 30% greater magnification than traditional otoscopes
- Ability to adjust focus for variable ear canal length or farsighted eye

Panoptic Ophthalmoscope, Welch Allyn (Quantity 2)

- 5X larger view of the fundus vs. standard ophthalmoscopes in an undilated eye
- Halogen HPX® lamp provides bright, white light
- Compatible with all existing Welch Allyn 3.5 V power sources
Features:

- Pelvic bones, sacrum, coccyx and lumber 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


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

![Stethoscope Image]

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)**

![Stethoscope Image]

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)
Surgery Table Amsco 2080L (Quantity 1)

**Electrical Surgical Table**

- Weight Capacity: 300 lbs
- Height Min/Max: 27”/45” (68.58/114.3 cm)
- Trendelenburg/Reverse Trendelenburg: 20\(^\circ\)
- Tilt Right/Left: 10\(^\circ\)
- Head Section Raise/Lower from Horizontal: 90\(^\circ\)
- Back Section Raise/Lower: 90\(^\circ/10\(^\circ\)
- Back Section Flex/Reflex: 15\(^\circ/10\(^\circ\)
- Seat Section Flex/Reflex: 20\(^\circ/15\(^\circ\)
- Foot Section Lower (with seat section-horizintal) 105\(^\circ\)
- Kidney Elevator, Raise (from table top level): 4.5” (11.43 cm)
- Tabletop: The 20” (50.8 cm) wide table is divided into four hinged sections: head, back, seat, and foot.

Syringe Pump Medfusion 3500 (Quantity 2)

- For arterial, epidural, enteral, intravenous, spinal and subcutaneous medication delivery.
- Automatically detects syringe sizes from 1 mL to 60 mL including intravenous and enteral syringe types from the most common manufacturers.
- The Flow Sentry™ occlusion detection offers adjustable sensitivity and alerts the clinician quickly in the event of an occlusion.
The Edge II features an easy-to-use interface for intuitive access to frequently used functions like gain and a wide-angle display with an anti-reflection coating for minimal adjustments during viewing. Designed with infection control in mind, the Edge II boasts a keypad with a seal extended to the edge to inhibit liquid ingress and low-profile keys with snap-dome technology for easy cleaning and tactile feedback.

**TRANSUCERS**

- **HFL38xi**  
  13-6 MHz Linear  
  Applications: breast, lung, musculoskeletal, nerve, ophthalmic, small parts, arterial, venous

- **rP19x**  
  5-1 MHz Phased  
  Applications: abdominal, cardiology, lung, ob, orbital, TCD

- **rC60xi III**  
  5-2 MHz Curved  
  Applications: abdominal, musculoskeletal, nerve, ob, gyn
Ultrasound Sonosite M-Turbo (Quantity 1)

Very high colour Doppler sensitivity.

- Stores still images and movie clips which can be exported via USB in PC friendly formats (jpeg, mpeg and avi).
- Optional enhanced needle visualisation software (unique to Sonosite) easily highlights needles within the patient allowing for accurate acquisition of a FNA or Tru-Cut biopsy sample.
- Probes available are: Echo probe, large curved probe, 30 mm Linear probe, transvaginal probe

Sonosite X-Porte (Quantity 2)

Extreme Definition Imaging (XDI™), Intuitive Touchscreen Interface, Real-time, Scan-along Learning

Transducers

| Abdominal, Neonatal, | Abdominal, Lung | Arterial, Breast, Lung, Musculoskeletal, Nerve, Small Parts, Venous |
| Nerve, Venous        |                |                                                                          |
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.
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
INDEX
Airway/Breathing

**Auscultate Lung Sounds** Harvey, NewbornHal, SimMan 3G, MegaCodeKid, SimJunior, SimBaby, SimMom, SimMan Essential, “Physiko Plus” Physical Assessment Simulator, Sam II, Ventriloscope LIVE

**Bronchoscopy** EndoVR Endoscopy Simulator, Endoscope/Intubation Fiberscope Olympus LF-2

**Chest Tube Insertion** SimBaby, SimMom, Micro-Preamie Simulator, Trauma Child, Trauma Man

**Cricothyroidotomy** SimMan 3G, SimMom, Airway Trainer, Adult, Tracheostomy Head, Trauma Child, Trauma Man, SimMan Essential, Airway Trainer, Deluxe Difficult, Laerdal (Quantity 2)

**Jaw Thrust** SimMom, NewBorn Hal, SimMan 3G, SimBaby, SimMan Essential, SimJunior,


**Needle Chest Decompression** SimBaby, SimNewbie, SimMan 3G, SimMom, Trauma Child, Trauma Man, SimMan Essential


**Oropharyngeal/Nasopharyngeal Airways** MegaCodeKid, SimJunior, SimBaby, SimNewB, SimMom, SimMan 3G, Airway Trainer Adult, SimMan Essential, Newborn Hal, Airway Management Trainer, Infant, Simulaid, Airway Management Trainer, Child, Simulaid
Pericardiocentesis Trauma Child, Trauma Man

**Spirometry:** Spirometer Microloop

Thoracentesis Thoracentesis trainer, SimBaby.

Tracheostomy Tracheostomy Head, Trauma Child, Trauma Man

Tracheostomy Care Tracheostomy Care Trainer; NG and Trach Care Trainer

Transtracheal Jet Ventilation SimMan 3G, Deluxe Difficult Airway Trainer, SimMan Essential

**Cardiovascular**

**Auscultate Heart Sounds** Harvey, Newborn Hal, SimMan 3G, SimJunior, MegacodeKid, SimNewB, SimMom, SimBaby, SimMan Essential, Premature Anne Simulator, Sam II, Ventriloscope LIVE

Defibrillation MegaCodeKid, SimJunior, SimBaby, SimMom, SimMan 3G, SimMan Essential

Cardiac Ultrasound Vimedix Cardiac Echo Simulator, Ultrasound GE Vscan Pocket

ECG Training Electrocardiograph Welch Allyn, Physiko Plus

Rhythm Generator MegaCodeKid, SimJunior, SimBaby, SimNewbie, SimMom, SimMan 3G, Newborn Hal, CS1201 Code Simulator, SimMan Essential; Premature Anne Simulator

**Gastrointestinal**

**Auscultate Bowel Sounds** SimMom, SimMan 3G, MegacodeKid, SimJunior, SimMan Essential, Harvey, Newborn Hal, Sam II

Endoscopy EndoVR Endoscopy Simulator

Feeding Tube Insertion SimBaby, Newborn Hal, Micro-Preamie Simulator, Premature Anne Simulator, Premature Anne Task Trainer; NG and Trach Care Trainer

Gastrostomy Tube SimNewB
Genitourinary
Urinary Catheterization  SimMan 3G, SimMom, Newborn Hal, Catheterization Trainer Male, Catheterization Trainer Female, SimMan Essential

Procedural Skills
Arterial Stick  Arterial Arm, Baby Arti, Arterial Arm Stick Kit Adult

Aspiration  Joint Aspiration Trainer Knee, Knee Aspiration & Injection Trainer with Ultrasound Capabilities

Birthing  Birthing Prompt, Sim Mom, Birthing Baby Standard, Birthing Baby Force Sensitive

Blood Pressure Training  Blood Pressure Training Arm, Blood Pressure Training Arm with brachial and radial pulses, Blood Pressure Cuff Auto, Ventriloscope LIVE

Cast Cutting  Cast Cutter and Cast Vac, Stryker

Central Line Insertion  Central Line Man, Central Line Man w/ articulating head, Vascular Access Child System, Femoral Line Man

Chest Tube Insertion  SimMan3G, SimMom, SimBaby

Defibrillation  SimMan 3G, SimMom, SimMan Essential, SimBaby, SimNewbie, Megacode Kid, SimJunior

Diagnostic Peritoneal Lavage  Trauma Man, Trauma Child

Ear Examination  Ear Examination Simulator Otosim 1, Otoscope Macro, Welch Allyn, Ear Examination Simulator with Pneumatoscopy Otosim 2, Ear Examination Trainer

Eye Examination  OphthoSim, ophthalmoscope 3.5V co-axial, integrated wall mount Welch Allyn, Panoptic Ophthalmoscope Welch Allyn

Epidural  Lumbar Puncture/Epidural Trainer Adult

Hip Examination,  Baby Hippy
IM Injections  SimMan3G, MegaCodeKid, SimMom, Newborn Hal, Venatech IM and SubQ Simulator, IV Training Arm, Adult

Joint Injection Trainers  Injection Trainer Ankle, Injection Trainer Elbow, Injection Trainer Hand and Wrist, Injection Trainer Shoulder, Knee Injection and Aspiration Trainer with ultrasound capabilities

IO Insertion  SimMan 3G, MegaCodeKid, SimJunior, SimBaby, SimNewB, Newborn Hal, B.I.G, Intraosseous Training Leg, Intraosseous Trainer Infant, SimMan Essential, Bone Injection Gun BoneModels, Bone Injection Gun Trainer B.I.G.; Bone Injection Gun Trainer EZ-IO, Intraosseous Infusion Leg, Pediatric (Quantity 2)

IV CutDown  Trauma Man

IV Insertion  SimMan 3G, MegaCodeKid, SimJunior, SimBaby, Newborn Hal, IV Leg infant, IV Training Arm Adult, Infant (Multi-venous system), Micro-Preemie Simulator, SimMan Essential

Lumbar Puncture  Lumbar Puncture Trainer Infant, Lumbar Puncture/Epidural Trainer Adult, Lumbar Puncture Baby Neonatal

Needle Decompression  SimMan 3G, SimBaby, Sim NewB, Trauma Man, Trauma Child

Ophthalmology  OphthoSim, Ophthalmoscope 3.5 V co-axial Welch Allyn, PanOptic Ophthalmoscope Welch Allyn

Parcentesis  Paracentesis Trainer

Prostate Exam  Prostate Examination Trainer

Rectal Exam  Rectal Exam Trainer

Subcutaneous Injection  Newborn Hal, SimMom, Venatech IM and SubQ Simulator, IV Training Arm Adult

Suctioning (oral/nasal)  Basic Infant Crisis Manikin; Newborn Hal, Premature Anne Simulator, Premature Anne Task Trainer

Surgical Skills  LapVR surgical laparotomy training Simulator

Suturing  Knot Tying Trainer Ethicon, LapVR Surgical Simulator
Transport and Immobilization PedSleeve, Backboard with head immobilizer.

Umbilical Catheterization Newborn Hal, SimNewB, Micro-Preemie Simulator, Premature Anne Simulator, Premature Anne Task Trainer.


Ventilator Skills Anesthesia Machine Drager NarkoMed GSBreathing Simulator ASL5000, Babylog 8000 plus neonatal Ventilator.

Moulage Advanced Trauma Module Kit, BTLS Victim Injury Set.