





Republic of the Philippines
CAVITE STATE UNIVERSITY
 Don Severino delas Alas Campus
 Indang, Cavite

SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR COM

ABC: ₱36,083,500.00/TRUST

| Item No. | Qty./ Unit | Item Description | Specifications | Unit Price (Php) | Total Price (Php) |
|----------|------------|--|---|------------------|-----------------------|
| 1 | 1 | Adult airway management trainer  | <ul style="list-style-type: none"> - Objective intubation practice with an adult torso model - Ability to do realistic practice by using skin-like feeling Human torso model - Head tilt / Chin lift, Sniffing position - Jaw Thrust maneuver (Displayed through the monitor) - Ventilation by using Bag-Valve-Mask - Insert the oral and nasal airway can be applied - Intubation tube (ETT), laryngeal mask (LMA/l-gel), combi tube (Combi-Tube) can be applied - Intubation by using laryngoscope - Observable chest rising during the ventilation and check with stethoscope - Alarm sounds due to the excessive use of laryngoscope - Detects Head tilt-chin lift method, Jaw Thrust, sniffing position and display these through a tablet - Observable intubation depth (deep/moderate/shallow) through tablet - Observable esophageal intubation on the tablet PC - Detects tidal volume and stomach expansion and display the state on the Tablet PC | P 1,284,000.00 | P 1,284,000.00 |

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| | | | <ul style="list-style-type: none"> - User can check up the training record through the auto-ID items and check-list - Check-list & result-point is all configurable. - All the results can be saved. - Wireless Blue-tooth connection between display device-tablet PC Component <p>Size: 32" x 25" x 12".</p> <p>Ship weight 42 lbs.</p> <p>with hard carry case, and lubricant.</p> | | |
| 2 | 1 | <p>Abdominal examination Trainer</p>  | <p>An anatomically accurate adult male torso that can be used to teach and practice palpation of the abdomen, auscultation, and percussion, elements of abdominal or gastrointestinal (GI) examination.</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> • Trainer or Simulated Patient can vary respiratory movement of liver and spleen by the turn of a wheel • Integral amplifier and surface mounted MP3 player. Allows training in auscultation of normal and high pitched or obstructed bowel sounds, renal and aortic bruits • Volume of bowel sounds can be adjusted, and the MP3 player allows you to add additional sounds • Distension set allows for realistic checking for ascites using percussion, shifting dullness or | P 1,687,000.00 | P 1,687,000.00 |

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| | | | <p>fluid thrill technique. As well as simulation of bowel obstruction on percussion and auscultation</p> <ul style="list-style-type: none"> • Pulse bulb allows simulation of a normal and aneurysmal aortic pulse <p>REALISM</p> <ul style="list-style-type: none"> • Organs feel realistic on palpation and respond appropriately to percussion • Life like quality of abdominal skin allows stretching for gaseous distension and ascites simulation • Realistic ballottement of enlarged kidney <p>VERSATILITY</p> <ul style="list-style-type: none"> • Abdominal skin is simple to remove, allowing quick and easy changeover of organs • Suitable for both bench top use and hybrid use with a Simulated Patient • Model can be rolled onto its side for examination of ascites and shifting dullness <p>ANATOMY</p> <ul style="list-style-type: none"> • Torso features include an abdomen, pelvis and lower part of the thorax • Bony landmarks include ribs, costal margin, xiphisternum, pubic crest and anterior superior iliac spine • 3 livers: slightly enlarged, enlarged with smooth edge and enlarged liver with irregular edge • Slightly enlarged and markedly enlarged spleens • 2 enlarged kidneys • Distended bladder • Normal and aneurysmal aortas | | |
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| | | | <ul style="list-style-type: none"> • Set of 6 Abdominal Pathologies including 4 smooth masses and 2 irregular hard masses • Distension Set including ascites bag, gaseous distension bag, pump and foam insert • Simplified representation of lower thoracic and lumbar spine <p>SKILLS GAINED</p> <ul style="list-style-type: none"> • Familiarity with the abdominal regions and underlying anatomy • Practice in abdominal palpation, auscultation and percussion • Ability to recognize and differentiate a range of abnormal organs and pathologies • Identification of ascites, specifically shifting dullness and fluid thrill • Identification of gaseous distension and bowel obstruction • Ballottement of kidneys • Professional-to-patient communication <p>Light Skin Tone</p> <p>Product Dimensions and Weight:</p> <ul style="list-style-type: none"> • Size: 40x80x20cm / 15.7x31.5x7.9 inch • Weight: 14kg / 30.9lbs <p>Materials:</p> <ul style="list-style-type: none"> • Soft resin • Latex free | | |
| 3 | 1 | Advanced Female Clinical Pelvic Exam Trainer | An anatomically accurate and tactile representation of the female pelvis. It is the ideal | P 1,356,000.00 | P 1,356,000.00 |



platform for hands-on examination as well as diagnosis of female conditions and minor pathologies. It can be used for many levels of training from undergraduate onwards, as well as in family health.

OVERVIEW

- Partial thighs aid anatomical orientation
- Soft and strong perineum and labia

REALISM

- Abdominal wall with fat layer makes palpation more realistic
- Labia can be parted realistically
- Each uterus is presented at the correct anatomical angle

VERSATILITY


- Abdominal wall can be removed quickly and easily
- Modules can be changed quickly and easily


ANATOMY

- Suitable for use with a simulated patient

ANATOMY

- Abdomen, pelvis and genitalia
- Vagina, cervix, anus and lower bowel
- Interchangeable uterine modules with different complications
- Modules:
 - o Normal - Nulliparous Cervix
 - o Large Fibroid – Nulliparous Ectropion Cervix
 - o Small Fibroid – Nulliparous Polyp Cervix
 - o Ovarian Cyst – Multiparous Cervix

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| | | | <ul style="list-style-type: none"> o Retroverted – Multiparous Cervix o 10-12 Weeks Pregnant o 14-16 Weeks Pregnant <p>SKILLS GAINED</p> <ul style="list-style-type: none"> • Recognition of perineal and pelvic anatomy including bony landmarks • Digital vaginal examination • Bi-manual examination • Cervical smear procedure (including use of speculum) • Digital rectal examination <p>light skin tone</p> <p>skin surface is washable using soap and water</p> <p>Latex free</p> | | |
| 4 | 1 | <p>Newborn PEDIA Simulator for Advanced Life Support, Medium</p>  | <p>Realistic intubatable airway, an injection training arm, an intraosseous infusion system, and numerous venous and arterial sites</p> <p>Features fully articulating head, neck, and jaw permitting head tilt/chin lift, jaw thrust, and neck extension into the "sniffing" position</p> <p>realistic, intubatable airway with cricoid cartilage, allowing the Sellick maneuver trachea, bronchi, lungs, and distensible stomach injection training arm with numerous venous/arterial sites intraosseous infusion and injection system with realistic tibial bones</p> <p>T-shirt and shorts instruction manual and custom nylon carry bag</p> | P 425,000.00 | P 425,000.00 |

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| | | | <ul style="list-style-type: none"> Measures 23 in. L x 8-1/2 in. W (shoulder width) | | |
| 5 | 1 | Lumbar puncture model  | Upper torso model for practicing ultrasound guided or blind-insertion techniques for lumbar puncture and epidural procedures. <ul style="list-style-type: none"> Ultrasoundable Ultrasound-guided or blind-insertion Palpation of spinous process Ultrasound can be used for identification of insertion points, angle, determination of depth to ligamentum flavum and epidural space Cerebral spinal fluid pressure can be increased to simulate pathological scenarios. Self-healing material allows for over 1000 punctures when use with 18-21 gauge needle Anatomy: <ul style="list-style-type: none"> Lumbar Spine Ligamentum Flavum Epidural Space Dura Subarachnoid membrane Subarachnoid space with cerebrospinal fluid approximate weight: 43.2 lbs. Dimensions: 36.0 in. x 27. in. x 20. in. | P 930,000.00 | P 930,000.00 |
| 6 | 1 | Birthing Simulator – Prompt flex Advanced with tablet | An anatomically correct birthing simulator allowing for multiple training scenarios. OVERVIEW | P 1,885,000.00 | P 1,885,000.00 |



- Bluetooth enabled baby for force monitoring during shoulder dystocia drills

- Includes Birthing Simulator software that supports the operations of the simulator.

Specs of tablet

- A 10.5" wide display with 10.2mm symmetric bezel
- Tablet design with a sleek metal body of just 6.9mm thickness
- Quad speakers with surround sound
- Octa core processor with up to 4GB RAM and 128GB memory. Can be expanded up to 1TB micro SD
- 7,040mAh battery and 15W fast charging
- Processor 2GHz
- Display 10.5" (266.9mm)
- Rear Camera – Resolution 8.0 MP
- Weight (g) 508

Processor Specifications Detail

- CPU Speed 2GHz
- CPU Type Octa-Core
- Display Size (Main Display)10.5" (266.9mm)
- Resolution (Main Display) 1920 x 1200 (WUXGA)
- Technology (Main Display) TFT

Color Depth (Main Display) 16M

- Camera
- Rear Camera - Resolution8.0 MP
- Rear Camera - Auto Focus Yes

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| | | | <ul style="list-style-type: none"> • Front Camera – Resolution 5.0 MP • Rear Camera – Flash No • Video Recording Resolution FHD (1920 x 1080) @30fps • Storage/Memory • Memory_(GB) 3 • Storage (GB) 32 • Available Storage (GB) 19.1 • External Storage Support microSD (Up to 1TB) • Connectivity • USB Version USB 2.0 • Location Technology GPS, Glonass, Galileo, QZSS • Ear jack 3.5mm Stereo • MHL No • Wi-Fi 802.11 a/b/g/n/ac 2.4G+5GHz, VHT80 • Wi-Fi Direct Yes • Bluetooth Version Bluetooth v5.0 • NFC No • Bluetooth Profiles A2DP, AVRCP, DI, HID, HOGP, HSP, OPP, PAN • PC Sync Smart Switch (PC version) • Android OS • General Information • Form Factor Tablet • Sensors • Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor • Physical specification • Dimension (HxWxD, mm) 161.9 x 246.8 x 6.9 • Weight (g) 508 • Battery | | |
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| | | <ul style="list-style-type: none"> • Battery Capacity (mAh, Typical)7040 • RemovableNo • Audio and Video • Video Playing FormatMP4, M4V, 3GP, 3G2, AVI, FLV, MKV, WEBM • Video Playing ResolutionFHD (1920 x 1080)@60fps • Audio Playing FormatMP3, M4A, 3GA, AAC, OGG, OGA, WAV, AMR, AWB, FLAC, MID, MIDI, XMF, MXMF, IMY, RTTTL, RTX, OTA • Services and Applications • Mobile TV No <p>actions and interventions to be recorded during drills, with time to deliver baby</p> <ul style="list-style-type: none"> • PDFs of trainee drills can be saved and printed for debriefing • Software compatible with Windows, PC, iOS and Android devices • Software scenarios can be modified or created from scratch to fit with your own language and procedures <p>REALISM</p> <ul style="list-style-type: none"> • Suitable for use with Simulated/ Standardized Patient • Realistic pelvic floor • Articulating thighs for McRobert’s procedure • Stretchable perineum • Soft, flexible birthing canal <p>VERSATILITY</p> <ul style="list-style-type: none"> • Additional optional modules available to extend training: <ul style="list-style-type: none"> o Post-Partum Hemorrhage management o C-section | | |
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| | | | <p>o Cervical Dilatation and Effacement</p> <ul style="list-style-type: none"> • Optional lower legs for all fours position • Supports bench top training or hybrid simulation <p>ANATOMY</p> <ul style="list-style-type: none"> • Birth canal and cervix • Ischial spines and pubic bone • Gynaecoid pelvis • Articulating thighs • Fully articulated baby with clavicles, fontanelles, flexible head, detachable umbilical cord and placenta <p>SKILLS GAINED</p> <p>Training and practice in the following types of birth:</p> <ul style="list-style-type: none"> • Normal • Vaginal breech • Shoulder dystocia with force feedback* • Vaginal assisted (forceps and vacuum devices) • Third stage of labor • Cord prolapse • Urinary catheter placement • IM injection • Communication and teamwork skills <p style="padding-left: 40px;">Skin washable with soap and water</p> <p>SAFETY</p> <p style="padding-left: 40px;">Latex free</p> | | |
| 7 | 1 | Chest Drain & Needle Decompression Trainer | <p>Simulator to deliver training in both surgical and guide-wire assisted thoracostomy and thoracentesis, chest drainage and needle decompression</p> | P 1,205,000.00 | P 1,205,000.00 |



techniques. Chest tube insertion is possible on both types of pad, with the Advanced model's eco-lucent material allowing practice of Seldinger's ultrasound technique.

OVERVIEW

- Approved for use in ATLS (Advanced Trauma Life Support) V10 courses
- Reservoirs in the rear of the model can be filled with fluid or mock blood to represent pleural effusion

REALISM

- Needle decompression air reservoirs provide realistic releases of air on insertion of needle
- Anatomically accurate representation of an adult male torso with raised arms
- Standard Pads have a Pleural Layer which has realistic give and "pop" when puncturing with forceps or finger
- Combined use of the Advanced Pads and the chest reservoirs allows for the simulation of pleural effusion

VERSATILITY


- Able to perform the Seldinger Technique
- Trainer can be used in a sitting or supine position

ANATOMY

- Adult male torso with raised arms
- Internal landmarks: ribs, lung and diaphragm

SKILLS GAINED

- Needle decompression/ needle thoracostomy of a tension

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| | | | <p>pneumothorax at both the 2nd and 5th intercostal space</p> <ul style="list-style-type: none"> • Ultrasound guided chest tube insertion, also known as the Seldinger Technique, including insertion of the needle into the pleural space under direct vision and ultrasonic recognition of chest structures • Open or cut-down chest tube insertion, including recognition of correct position, surgical incision, blunt dissection through the chest wall, perforation of pleura and finger sweep • Suturing of the tube to the chest wall • Use of a chest drain, including using with an underwater seal <p>light skin approximate Packed weight: 17.0 lbs. Dimensions: 23.0 in. x 18.8 in. x 12.4 in</p> | | |
| 8 | 1 | <p>Clinical Male Pelvic exam Trainer</p>  <p>The anatomically accurate Clinical Male Pelvic Trainer (CMPT) is the ideal platform to teach hands on male pelvic examinations. As well as the normal male anatomy, the Advanced model comes with 6 pathological penile modules for a varied learning experience.</p> <p>SKILLS GAINED Correct examination procedure of the male pelvis Dry catheterization Professional-to-patient communication Examination and evaluation of:</p> <p>Normal anatomy</p> | P 1,525,000.00 | P 1,525,000.00 | |

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| | | <p>Testicular abnormalities and penile cancer Abdominal and pelvic pain</p> <p>OVERVIEW Anatomically accurate male simulator that allows for realistic practice of the male pelvic exam 7 supplied modules give a wide variety of pathologies to identify A Foreskin Pack is included to practice procedures on both circumcised and uncircumcised anatomy</p> <p>REALISM Soft tissue genitals and abdominal wall Clear anatomical landmarks allow for a realistic palpation experience Penis, foreskin and scrotum respond in a life-like way under examination, adding realism</p> <p>VERSATILITY Allows training of male pelvic exam in both standing and supine positions CMPT modules are quick and easy to change</p> <p>CLEANING Clean product surfaces with a soft damp cloth, warm water and mild detergent, after every training session Allow to dry thoroughly before storing</p> <p>SAFETY External surfaces are latex free Interior anatomy of Module 5 (Hydrocele) and Module 7 (Indirect Inguinal Hernia), contain latex Only use water-based lubricant on the CMPT range</p> | | |
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| | | | <p>Lubricate the foreskin before attaching it to the training module</p> <p>Do not leave foreskin on the model when not in use</p> <p>Wear gloves when handling the simulator, sharp surfaces such as jewellery and fingernails can damage silicone parts</p> <p>SIMULATED PATIENT</p> <p>The Clinical Male Pelvic Trainers can be used with a simulated patient</p> <p>ANATOMY</p> <p>Anatomy of the groin:</p> <p>Anterior Superior Iliac Spine (ASIS)</p> <p>Pubic symphysis and tubercles</p> <p>Anatomy of male genitalia:</p> <p>Penis with attachable foreskins to simulate circumcised and uncircumcised anatomy</p> <p>Scrotum containing testicles with epididymis and vas deferens</p> <p>Pathological representations of:</p> <p>Testicular tumour and penile cancer</p> <p>Epididymal cyst</p> <p>Varicocele Orchitis/Epididymo-orchitis</p> <p>Hydrocele</p> <p>Indirect Inguinal Hernia</p> <p>light skin</p> | | |
| 9 | 1 | Male rectal examination trainer | The Advanced Male Rectal Examination Trainer offers realistic and repeatable training in the core skills of digital rectal | P 598,000.00 | P 598,000.00 |



and PR examinations. It is also suitable for training in the identification of abnormal and pathological conditions.

SKILLS GAINED

Professional to patient communication
Digital examination of the anus, rectum and prostate
Assessment of anal tone
Identification of impacted faecal matter in the rectum
Identification of external ano-rectal conditions

OVERVIEW

Simulation of sphincter contractions allows trainees to assess anal tone
Left lateral positioning
Addition of impacted faecal matter allows trainees to recognise and distinguish this common finding
Advanced simulator supplied with a normal and pathological perineum
Prostates are quickly and easily interchangeable allowing for discrete set up in assessment conditions
High quality illustration pack of 9 external anal conditions


REALISM

Anus with resting tone and the ability to contract with the use of a pulse bulb
Soft, portable buttocks
Improved anal rim
Softer, more realistic prostates

VERSATILITY

Trainer comes with a left lateral stand, and an additional Standing

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| | | | <p>Position stand is available to widen training scenarios</p> <p>CLEANING Remove any excess lubricants, enemas, suppositories, or creams used Clean product with a soft damp cloth, using warm water and mild detergent Ensure trainer and its components are completely dry before storing</p> <p>SAFETY This product is latex free Only use water based lubricant, such as the one supplied with the simulator (other lubricants may damage or weaken the silicone) Wear gloves at all times and remove all jewelry before use Lubricate your examining finger before performing a digital rectal exam Do not use excessive force on the pulse bulb or anus Always secure items safely and ensure that the perineum is away from sharp or heavy objects that could cause a puncture</p> <p>SIMULATED PATIENT This trainer is suitable for use with a simulated patient</p> <p>ANATOMY Male anatomy:</p> <p>Buttocks Anus Rectum Prostate Perineum (Pathological perineum with polyp and rectal cancer) 4 abnormal prostates:</p> | | |
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| | | | <p>Benign unilateral enlarged prostate Benign bilateral enlarged prostate Unilateral carcinoma Bilateral carcinoma</p> <p>light skin Size (approx.) W37 x D28 x H30 cm / W14.6 x D11 x H11.8 inch Packing size (approx.) W49 x D33 x H36 cm / W19.3 x D13 x H14.2 inch Weight (approx.) 3.45kg</p> | | |
| 10 | 1 | <p>Female catheterization trainer</p>  | <p>The Female Catheterization Trainer allows trainees to learn urinary catheterization techniques, as well as care of a pre-inserted suprapubic catheter via the pre-reported bung. The feel of the catheter passing along the urethra into the bladder corresponds closely to real life.</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> • More robust design means longer lasting models, keeping on-going costs lower • Ability to view catheter path when modules are used outside of the Pelvic Shell • Improved Water System • Softer, more realistic female anatomy • Improved internal anatomy to allow for smoother insertion of catheter into the bladder | P 665,000.00 | P 665,000.00 |

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| | | | <p>REALISM</p> <ul style="list-style-type: none"> • Supple urethra & resistant sphincter providing realistic response • Anatomically accurate bladder • Softer labia to practice parting using aseptic non touch technique • Meatus is less obvious than previous simulator, allowing for truer to life experience when performing female catheterization • Increased realism of anatomy, inclusion of a vaginal vault allows for potential insertion of catheter into the incorrect location <p>VERSATILITY</p> <ul style="list-style-type: none"> • Modules are removable and easily interchangeable • Ability to view the path of the catheter during procedures • Non-drip valve • Reusable double-sleeve catheter packaging is supplied for teaching aseptic technique • Syringe supplied with water-based lubricant to simulate proprietary local anesthetic gel <p>CLEANING</p> <ul style="list-style-type: none"> • Drain all water from the product • Remove all catheters from the trainer • Clean product surface with soft, damp cloth and mild detergent • Allow trainer to dry completely before storing <p>SAFETY</p> | | |
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| | | | <ul style="list-style-type: none"> • Components of the trainer are latex free • Foley Catheter supplied is made of silicone coated latex • Use supplied Milton Antifungal agent to sterilize water • Always deflate the balloon before removing a catheter • Only use mock gel that's supplied with the catheterization simulator • Use lubricant when inserting the catheter <p>ANATOMY</p> <ul style="list-style-type: none"> • Can be used with a standardized patient to help improve communication skills <p>ANATOMY</p> <ul style="list-style-type: none"> • Soft labia • Subtle meatus • Vaginal vault • Pre-ported suprapubic catheter • Pubic bone <p>SKILLS GAINED</p> <ul style="list-style-type: none"> • Correct handling of female anatomy • Aseptic catheterization technique • Withdrawal of catheter • Urinary catheterization • Fluid management • Suprapubic catheter management on female anatomy <p>light skinned approximate weight: 11.9 lbs. Dimensions: 21.8 in. x 17.1 in. x 10.8 in.</p> | | |
| 11 | 1 | Male catheterization trainer | <ul style="list-style-type: none"> • More robust design means longer lasting models, keeping on-going costs lower | P 665,000.00 | P 665,000.00 |



• Ability to view catheter path when modules are used outside of the **Pelvic Shell**

- Improved Water System
- Softer, more realistic male anatomy
- Improved internal anatomy to allow for smoother insertion of catheter into the bladder

REALISM

- Supple urethra & resistant sphincter providing realistic response
- Anatomically accurate bladder
- Flaccid penis with a removable foreskin for realistic male catheterization
- Increased mobility of the penis gives a more accurate representation of inserting the catheter

VERSATILITY

- Modules are removable and easily interchangeable
- Module comes with removable foreskins
- Ability to view the path of the catheter during procedures
- Non-drip valve
- Reusable double-sleeve catheter packaging is supplied for teaching aseptic technique
- Syringe supplied with water-based lubricant to simulate proprietary local anesthetic gel

CLEANING

- Drain all water from the product
- Remove all catheters from the trainer

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| | | | <ul style="list-style-type: none"> • Clean product surface with soft, damp cloth and mild detergent • Allow trainer to dry completely before storing <p>SAFETY</p> <ul style="list-style-type: none"> • Components of the trainer are latex free • Foley Catheter supplied is made of silicone coated latex • Use supplied Milton Antifungal agent to sterilize water • Always deflate the balloon before removing a catheter • Only use mock gel that's supplied with the catheterization simulator • Use lubricant when inserting the catheter <p>ANATOMY</p> <ul style="list-style-type: none"> • Can be used with a standardized patient to help improve communication skills <p>ANATOMY</p> <ul style="list-style-type: none"> • Pubic bone • Realistic meatus • Flaccid penis • Foreskins (removable) <p>SKILLS GAINED</p> <ul style="list-style-type: none"> • Correct handling of male anatomy • Aseptic catheterization technique • Withdrawal of catheter • Urinary catheterization • Fluid management <p>approximate weight: 11.9 lbs. Dimensions: 21.8 in. x 17.1 in. x 10.8 in</p> | | |
| 12 | 1 | Paracentesis Trainer | Ultrasoundable paracentesis trainer for diagnostic and therapeutic techniques of paracentesis. Allows trainees to familiarize with anatomy, both | P 1,152,000.00 | P 1,152,000.00 |



palpable landmarks and ultrasound guided techniques.

OVERVIEW

- Landmark or ultrasound techniques can be practiced (side by side)
- Internal echogenic anatomy to allow recognition of landmarks under ultrasound
- Two 3.5 liter chambers can be filled with water for drainage practice
- Cost effective consumable pads

REALISM

- Realistic tissue and needle response

VERSATILITY


- Self-sealing pads withstand up to 200 needle or up to 100 rocket catheter insertions
- Ability to insert and remove drain
- Positions both supine and lying on side

ANATOMY

- Torso featuring bony landmarks and umbilicus
- Internal anatomy includes:
 - o Liver
 - o Spleen
 - o Bowel
 - o Floating Bowel

SKILLS GAINED

- Familiarity with the abdominal regions and underlying anatomy
- Palpation of anatomical landmarks
- Identification of excess fluid
- Using ultrasound guidance, trainees can visualize the insertion site and check for vital organs beneath

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| | | | <ul style="list-style-type: none"> • Insertion of needle into the peritoneal cavity for therapeutic or diagnostic purposes • Professional-to-patient communication <p>light skin tone</p> <p>Skin surface is washable using soap and water</p> <p>Latex free</p> | | |
| 13 | <p>Adult Mannequin Auscultation Task Trainer</p>  | <p>For training different heart, lung and bowel sounds.</p> <p>The sounds library conforms to American Thoracic Society guidelines.</p> <p>Highlights</p> <ul style="list-style-type: none"> • Adult Auscultation Trainer • 44 heart sounds • 26 lung sounds • 18 abdomen sounds • All the auscultation positions light up • Sounds can be transmitted to an external speaker • Realistic manikin skin • Anterior and posterior auscultation points • Rotatable platform • Compatible with a real stethoscope <p>Challenge assessment skills from clear clinical findings to detecting faint murmurs. The flexible operating tablet allows you to:</p> <ul style="list-style-type: none"> • Activate or deactivate auscultation points and backlighting individually | P 3,900,000.00 | P 3,900,000.00 | |

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| | | <ul style="list-style-type: none"> • Adjust volume and intensity of sounds • Change HR and RR for a sound that is currently being reproduced • Compare sound recordings • Sound matches ECG diagrams and other vital parameters <p>Cardiac Auscultation</p> <ul style="list-style-type: none"> • Normal heart sound • Split first heart sound • Split second heart sound • Third heart sound (gallop) • Fourth heart sound (gallop) • Functional murmur • Diastolic murmur • Opening snap • Holosystolic murmur • Early systolic murmur • Mid-systolic murmur • Continuous murmur • Austin Flint murmur • Pericardial rub • Graham Steel murmur • Aortic valve regurgitation • Aortic valve stenosis • Aortic stenosis and regurgitation • Mitral valve regurgitation • Mitral valve stenosis • Mitral valve prolapse • Mitral valve stenosis and regurgitation • Mitral valve stenosis and tricuspid valve regurgitation • Pulmonary valve stenosis • Pulmonary valve regurgitation • Tricuspid valve regurgitation • Coarctation of the aorta • Hypertrophic cardiomyopathy • Patent ductus arteriosus • Atrial septal defect | | |
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| | | | <ul style="list-style-type: none"> • Ventricular septal defect • Acute myocardial infarction • Congestive heart failure • Systemic hypertension • Acute pericarditis • Dilated cardiomyopathy • Pulmonary hypertension • Tetralogy of Fallot • Ventricular aneurysm <p>Auscultation of Lungs</p> <ul style="list-style-type: none"> • Bronchial respiration • Vesicular respiration • Diminished vesicular respiration • Coarse crackles • Fine crackles • Wheezes • Rhonchi • Stridor • Pleural friction rub <p>Abdomen Auscultation</p> <ul style="list-style-type: none"> • Normal bowel sound • Hyperactive sounds • Hypoactive sounds • Borborygmus • Capotement • Peritoneal friction rub • Normal bowel sound with bruits • Irritable bowel syndrome • Diarrhea • Bruits due to renal arteries stenosis • Constipation • Ulcerative colitis • Crohn's disease • Paralytic ileus light skin color | | |
| 14 | 1 Set | CPR Trainer(Set of 5+1 tablet computer) | <ul style="list-style-type: none"> • LED Display for real-time feedback (Chest compression, Ventilation) • Chest compression – Total number, Good number, Depth, Speed, Incomplete recoil, Hand position | P 1,715,000.00 | P 1,715,000.00 |



- Ventilation – Total number, Good number, Volume, Rate
- Sound, LED ON / OFF
- Head tilt-Chin lift Maneuver, Airway opening
- Visible Chest rising during ventilation
- Semi-permanent use of AED training pads with embedded magnets in manikin (Offering magnetic stickers)

SOFTWARE

- Software preloaded into tablet computer; Software shall support the operations of the CPR Trainer.
 - A 10.5" wide display with 10.2mm symmetric bezel
 - Tablet design with a sleek metal body of just 6.9mm thickness
 - Quad speakers with surround sound
 - An Octa core processor with up to 4GB RAM and 128GB memory. Expand more with up to 1TB micro SD
 - A long lasting 7,040mAh battery and 15W fast charging
 - Processor 2GHz
 - Display 10.5" (266.9mm)
 - Rear Camera – Resolution 8.0 MP
 - Weight (g) 508

Processor Specifications

- CPU Speed 2GHz
- CPU Type Octa-Core
- Display Size (Main Display) 10.5" (266.9mm)
- Resolution (Main Display) 1920 x 1200 (WUXGA)
- Technology (Main Display) TFT

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| | | | <ul style="list-style-type: none"> • Color Depth (Main Display) 16M • Camera • Rear Camera - Resolution 8.0 MP • Rear Camera - Auto Focus Yes • Front Camera – Resolution 5.0 MP • Rear Camera – Flash No • Video Recording Resolution FHD (1920 x 1080) @30fps • Storage/Memory • Memory_(GB) 3 • Storage (GB) 32 • Available Storage (GB) 19.1 • External Storage Support MicroSD (Up to 1TB) • Connectivity • USB Version USB 2.0 • Location Technology GPS, Glonass, Galileo, QZSS • Ear jack 3.5mm Stereo • MHL No • Wi-Fi 802.11 a/b/g/n/ac 2.4G+5GHz, VHT80 • Wi-Fi Direct Yes • Bluetooth Version Bluetooth v5.0 • NFC No • Bluetooth Profiles A2DP, AVRCP, DI, HID, HOGP, HSP, OPP, PAN • PC Sync.Smart Switch (PC version) • Android OS • General Information • Form Factor Tablet • Sensors | | |
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| | | | <ul style="list-style-type: none"> • Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor • Physical specification • Dimension (HxWxD, mm)161.9 x 246.8 x 6.9 • Weight (g)508 • Battery • Battery Capacity (mAh, Typical)7040 • RemovableNo • Audio and Video • Video Playing FormatMP4, M4V, 3GP, 3G2, AVI, FLV, MKV, WEBM • Video Playing ResolutionFHD (1920 x 1080)@60fps • Audio Playing FormatMP3, M4A, 3GA, AAC, OGG, OGA, WAV, AMR, AWB, FLAC, MID, MIDI, XMF, MXMF, IMY, RTTTL, RTX, OTA • Services and Applications • Mobile TV No <ul style="list-style-type: none"> • Connect up to 6 manikins at the same time • Editable guidelines • Various Training modes: Game mode, Training mode, Evaluation mode • Training for Chest Compression and Ventilation · Count Total Number and Correct Number of Compressions Count Total volume and number of ventilation • Assessment results exportable | | |
| 15 | 1 | Pediatric Auscultation Trainer | For training different heart, lung and bowel sounds. | P 4,250,000.00 | P 4,250,000.00 |



The sounds library conforms to American Thoracic Society guidelines.

Highlights

- Pediatric Auscultation Trainer
- 44 heart sounds
- 26 lung sounds
- 18 abdomen sounds
- All the auscultation positions light up
- Sounds can be transmitted to an external speaker
- Realistic manikin skin
- Anterior and posterior auscultation points
- Rotatable platform
- Compatible with a real stethoscope

Challenge assessment skills from clear clinical findings to detecting faint murmurs. The flexible operating tablet allows you to:

- Activate or deactivate auscultation points and backlighting individually
- Adjust volume and intensity of sounds
- Change HR and RR for a sound that is currently being reproduced
- Compare sound recordings
- Sound matches ECG diagrams and other vital parameters

Cardiac Auscultation

- Normal heart sound
- Split first heart sound
- Split second heart sound
- Third heart sound (gallop)
- Fourth heart sound (gallop)
- Functional murmur

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| | | <ul style="list-style-type: none"> • Diastolic murmur • Opening snap • Holosystolic murmur • Early systolic murmur • Mid-systolic murmur • Continuous murmur • Austin Flint murmur • Pericardial rub • Graham Steel murmur • Aortic valve regurgitation • Aortic valve stenosis • Aortic stenosis and regurgitation • Mitral valve regurgitation • Mitral valve stenosis • Mitral valve prolapse • Mitral valve stenosis and regurgitation • Mitral valve stenosis and tricuspid valve regurgitation • Pulmonary valve stenosis • Pulmonary valve regurgitation • Tricuspid valve regurgitation • Coarctation of the aorta • Hypertrophic cardiomyopathy • Patent ductus arteriosus • Atrial septal defect • Ventricular septal defect • Acute myocardial infarction • Congestive heart failure • Systemic hypertension • Acute pericarditis • Dilated cardiomyopathy • Pulmonary hypertension • Tetralogy of Fallot • Ventricular aneurysm Auscultation of Lungs • Bronchial respiration • Vesicular respiration • Diminished vesicular respiration • Coarse crackles • Fine crackles • Wheezes | | |
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| | | | <ul style="list-style-type: none"> • Rhonchi • Stridor • Pleural friction rub <p>Abdomen Auscultation</p> <ul style="list-style-type: none"> • Normal bowel sound • Hyperactive sounds • Hypoactive sounds • Borborygmus • Capotement • Peritoneal friction rub • Normal bowel sound with bruits • Irritable bowel syndrome • Diarrhea • Bruits due to renal arteries stenosis • Constipation • Ulcerative colitis • Crohn's disease • Paralytic ileus | | |
| 16 | 3 | Electrocardiogram | <ul style="list-style-type: none"> • Powerful digital filters: HUM,EMG,ADS,Low pass • Detection and alarm on lead-off and low battery capacity • Automatic adjustment of baseline for optimal printing • 12 ECG files can be save in the ECG (Not available for ECG-1103B) • Automatic adjustment of baseline for optimal printing • 250 ECG files can be save to SD card (Optional,not available for ECG-1103B) • 12 ECG files can be save in the ECG (Not available for ECG-1103B) | P 172,500.00 | P 517,500.00 |
| 17 | 2 | Adult IV Arm Simulator | <p>SKILLS GAINED</p> <ul style="list-style-type: none"> • Venipuncture | P 300,000.00 | P 600,000.00 |



- IV Cannulation (Dorsal Metacarpal & ACF)
- IV Infusion
- Communication skills using a simulated patient
- Practice of aseptic technique


OVERVIEW

- Advanced Pressurized Pump System reduces internal leakage for a more user-friendly experience
- Cost-effective vein modules reduce waste and are easy to replace
- Realistic and palpable vein haptics promote accurate clinical use
- Easy-to-fit skin-locking system (patent pending) increases anatomical realism
- New vein gripping feature facilitates correct vein positioning, repeatable training and an easier re-skinning and re-veining process
- Infusion tube allows for IV fluids to be administered
- Can be used in conjunction with a simulated patient

REALISM

- Realistic representation of the antecubital fossa (ACF) and metacarpal vein regions
- Using the Advanced Pump, the arm operates at an accurate blood pressure
- Provides lifelike blood flashback
- Increased realism of the arm (look and feel)
- Gripping system provides true-to-life vein placement

VERSATILITY


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| | | | <ul style="list-style-type: none"> • Compatible with vacuum blood collection systems, needle & syringe, and IV cannulas • Durable skin • Extended tubing allows for extra maneuverability in a classroom setting for use with a simulated patient • Veins can withstand up to 500 stabs from a 21g needle • All features are compatible with Basic and Standard arms <p>ANATOMY</p> <p>Underlying palpable veins:</p> <ul style="list-style-type: none"> • Basilic vein • Cephalic vein • Dorsal metacarpal veins • Median cubital vein | | |
| 18 | 3 | <p>Pediatric IV Arm Simulator</p>  | <ul style="list-style-type: none"> • The Pediatric Arm allows individuals to practice venipuncture and intramuscular injection techniques and procedures used in young children. Exact reproduction of the arm of a six-year-old child. • Key Features: • Realistic sensation and response • Lifelike vinyl skin that rolls as you palpate to allow location of the vein • Synthetic rubber tubing for the veins carefully selected to provide a lifelike simulation of vein size | P 138,000.00 | P 414,000.00 |

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| | | | <ul style="list-style-type: none"> • The feeling of puncture and palpation for practicing venipuncture • A soft foam is used to simulate the deltoid muscle and allows the student to "get the feel" of administering intramuscular injections to children • Simulated bone in the shoulder that defines and limits the injection area. • Water may be used as an injection fluid in the shoulder area. • • Includes arm with white skin, fluid supply bag, 3 cc syringe, one pint of "blood", teaching guide, and a hard carry case. Fluid supply stand not included. • The Pediatric Injectible Arm Simulator is designed with replaceable skin and veins. • • To extend the life of each skin/vein set, an aerosol sealant should be available to seal punctures in the tubing and prevent leakage. | | |
| 19 | 2 | Breast Examination Trainer | <ul style="list-style-type: none"> • The Advanced Breast Examination Trainer offers a hybrid training solution, covering bench top and simulated patient learning. • | P 370,000.00 | P 740,000.00 |



- This model gives the widest variety of examinable anatomy and pathologies in the Breast Trainer range. The inclusion of a clavicle, and two axilla pads, allows for the placement of lymph nodes in six locations, covering axillary, supra and infraclavicular positions.
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- SKILLS GAINED
- Clinical Breast Examination (CBE)
- Self Breast Examination
- Identification of anatomical landmarks
- Location and diagnosis of pathologies
- Identification of lymph nodes (axillary, supra- and infra-clavicular)
- Professional to patient communication with Simulated Patient set-up
-
- OVERVIEW
- Pathologies are easily changeable and can be placed in various predetermined locations
- Offers dual purpose training, bench top (with the use of the hard torso) and hybrid
- REALISM
- Soft tissue breasts offer a realistic look and feel
- Clavicular and axilla pads give a more accurate lymph node placement
- VERSATILITY

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| | | | <ul style="list-style-type: none"> ● Range of pathologies can be moved within the breast model for a variety of diagnostic scenarios ● Ergonomic design for Simulated Patient exercises, including prolonged use in OSCEs and assessments ● Adjustable straps to fit a wide range of simulated patients ● SIMULATED PATIENT ● Wearable breasts component can be used with a simulated patient, strap fastenings and lymph node pads are adjustable to the wearer ● ANATOMY ● Realistic soft tissue for palpation of the breast ● Supplied with a variety of pathologies: ● Carcinomas (2cm, 3cm and 5cm in size) ● Cyst ● Fibrocystic disease ● Fibroadenoma ● Supra- and infra-clavicular, and axillary pads for lymph node placement | | |
| 20 | 50 | Digital Microscopes with binocular head, camera and software | <ul style="list-style-type: none"> ● Eyepiece Type Trinocular ● Microscope Type Compound ● Stand Type Compound ● Light Source LED white ● Optical Field of View 22mm ● Max Specimen Height 22mm ● Optical Magnification 40X to 1000X ● Maximum Magnification Capability 1600X | P 200,000.00 | P 10,000,000.00 |

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| | | | <ul style="list-style-type: none"> • Magnification range 21x ~ 125x Optical, 40x ~ 258x Digital • Base Dimensions 9 in x 15 in • Manufacturer's Warranty Length Lifetime Optics and Mechanics, 1 yr Electronics • Working Distance Infinite • Eyepiece Protractor No • Features Crisp Clarity; Powerful Performance; Rugged Construction • Includes (2) Rubber Eyeguards; AC Adapter; Dust Cover; Microscope Objectives • Product Type Microscope, stereo zoom • Camera type: • 8.3 MegaPixel high-quality still images • Autofocus • High-speed video • Large Pixels • 1/1.8" sensor • HDMI, USB 3.0, and WIFI • 4K video • Stand-alone • | | |
| 21 | 1 | <p>Ostomy Care Simulator Training Model</p>  | <ul style="list-style-type: none"> • The Ostomy Care Simulator is designed to help introduce the essentials of ostomy care to patients and students, this unit is ideal for demonstration and practice for several procedures. • • The anatomy of both a colostomy and ileostomy are carefully reproduced to provide lifelike functions and appearance. | P 225,000.00 | P 225,000.00 |

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| | | | <p>Dilation of the stomas can be demonstrated and practiced, along with application of postoperative and permanent ostomy bags. The colostomy can actually be irrigated.</p> <ul style="list-style-type: none"> ● ● Syringes are included to pump materials through the unit to provide drainage and excretion at the ileostomy and colostomy. The syringes are inserted through ports in the back of the simulator. One pumps the ileostomy with clear water, or water tinted for exact realism, and the other syringe pumps synthetic stool to the colostomy. ● ● The consistency of the stool can be varied by using water to thin the material, and most of the stool can be salvaged and reused. A soft, pliable material is used for the stomas in order to achieve a most realistic tactile sensation. ● ● Complete with a hard carry case, teaching guide, and supply of simulated stool. | | |
| 22 | 1 | NG Tube & Tranch Skills Simulator | <ul style="list-style-type: none"> ● The NG Tube & Trach Skills Simulator ● for aid with the instruction, training, and | P 345,000.00 | P 345,000.00 |




practice of vital tracheostomy skills and care for patients with respiratory conditions.

- Designed for instruction of gastrointestinal care procedures through nasal and oral access.
- With realistic landmarks such as trachea, esophagus, lungs, and stomach.
- Includes hydroxyethyl cellulose that can be mixed with water to simulate mucous-like fluids of a real patient.
- Fluids can be added to the lungs and stomach for realistic tracheostomy care and suctioning.
- Allows for the practice of dressing changes and cuff inflation.
- Procedures include NG tube care, including insertion, irrigation, and removal gastric lavage and gavage, feeding tube insertion and removal with the ability to practice feeding, nasoenteric and esophageal tube care, oropharyngeal and nasopharyngeal care and tracheostomy tube care Intubation using a laryngoscope blade and size 6.0 ET tube may also be practiced.
- Designed to use size 6 tracheostomy tubes and a size 6 NG tube.


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| | | | <ul style="list-style-type: none"> ● Includes: Spray-pump lubricant, a packet of hydroxyethyl cellulose, instruction manual, tracheostomy ET, or NG tube and hard carry case <p>General Conditions/ Certifications for to be submitted upon Bid Opening:</p> <ul style="list-style-type: none"> ● Laboratory Staff and Faculty Members Training ● Maintenance and after sales care for 5 years ● Certificate that there will be maintenance and end user training on-site for Laboratory Staff and Faculty Members ● Certificate that Parts are available in an Authorized Service Center in the Philippines and can provide after sales care for a period of 5 years after warranty period ● Current and Certificate of Manufacturers ISO and/or CE compliance ● Certificate that the bidder will provide on site calibration and validation with certificate on conformity and equivalent ● Certificate that the bidder will provide installation, testing and commissioning | | |
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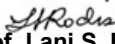
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| | | | <ul style="list-style-type: none"> • Certificate that the bidder has available local technical support • Certificate that the bidder will provide warranty for three years • Certificate that the bidder will provide cost of damages on the existing facility during delivery and installation of all equipment will be shouldered by the supplier | | |
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Prepared By:

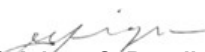

Franz Josef G Biboso MD
COLLEGE OF MEDICINE
 End User

Certified:



Mr. Rene B. Betonio
 Chair: TWG-Medical, Dental and
 and Laboratory Equipment


Prof. Lani S. Rodis
 Member: TWG-Medical, Dental
 Laboratory Equipment


Prof. Ma. Corazon V. Herrera
 Member: TWG-Medical, Dental and
 and Laboratory Equipment


Prof. Arleen C. Panaligan
 Member: TWG-Medical, Dental
 Laboratory Equipment


Prof. Emeline C. Guevarra
 Chair: TWG - Computer
 and Office Equipment


Mr. Dindo C. Marges
 Member: TWG - Computer
 and Office Equipment


Mr. Anzley R. Crusis
 Member: BAC TWG – Computer and Office Equipment

Noted By:


Eleanor J. Galvez, MD
 Dean, COM