Equipment Catalog

MUSSON Simulation Center

Essig Clinical Simulation Learning Center
&
Miller Safe Practices Room
Simulation Center Layout

- Miller Safe Practices Room 347
- Essig Clinical Simulation Learning Center
- IV Pumps
- 354
- 356 Viewing/Control Room
- 359 Computer Lab
- Computer Lab
Table of Contents

Equipment .................................................................................................................. 4
Manikins .................................................................................................................... 8
Task Trainers and Health Education Models ............................................................ 9
OB/GYN and Pediatric Specialty Equipment ........................................................... 18
Advanced Practice Equipment .................................................................................. 20
## Equipment

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hill-Rom Advanta™ 2 Med-Surg Bed</strong></td>
<td>(Qty 8)</td>
</tr>
<tr>
<td><strong>Trauma Stretcher</strong></td>
<td>(Qty 2)</td>
</tr>
<tr>
<td><strong>OB/GYN Stretcher</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Simulated Medication Dispensing System</strong></td>
<td><em>This System allows students to work with a real unit in a lab setting, experiencing the benefits of SMDS in terms of safety, accuracy and workflow. This gives students hands-on experience with one of the most advanced systems available today.</em></td>
</tr>
<tr>
<td><strong>Opera Lift/ Hoyer Lift</strong></td>
<td><em>This combination meets most everyday lifting requirements involving the support of patients weighing up to 200 kg (440 lbs).</em></td>
</tr>
<tr>
<td><strong>Waverley Glen S-440 Sit-to-Stand Lift</strong></td>
<td><em>Sit-to-Stand is an easy-to-use stand-up floor lift, designed for patients/residents with reduced mobility and physical strength who are unable to raise themselves independently.</em></td>
</tr>
</tbody>
</table>
### Hover mat

The Hover mat uses air to inflate the mattress and transfer or reposition the patient. Nurse only feels 10% of patient’s actual weight.

### Portable Suction

Portable suction unit that offers one-touch testing to quickly check all functions: occlusion, vacuum build-up efficacy, maximum achievable vacuum level and air leakage.

### Zoll Defibrillator and Crash Cart

M-series Zoll defibrillator and crash cart used for mock codes and resuscitation simulations. CPR board included.

### Physio-Control LifePak 9P

Monitor/Defibrillator/Pacer.

### Macintosh Laryngoscope with Light Set

### Ventilator

### iPad mini

**(Qty 20)**

iPads can be integrated into the classroom and simulation setting. They allow student to engage in learning in a new and innovative manner; and allow instructors to educate and evaluate.
Sim Pad

SimPad gives you the confidence to know that you can run simulations quickly and efficiently. With its large, intuitive touch screen design, SimPad is virtually a "Pick up and Play" experience, allowing you to easily deliver highly effective simulation-based education.

Google glass (Qty 4)

Wearable technology with an optical head-mounted display. Displays information in a smartphone-like, hands-free format.

Littman 3200 Blue Tooth

Blue Tooth enables the recording of heart sounds that can later be transferred to a computer. Instructors can record unique heart sounds during clinical and playback during post conference.

Rechargeable Oto/Ophthalmoscopes (Qty 8)

Pan Optic Scope (Qty 2)

Pneumatic Otoscopy
### Various Restraint and Mobility Devices:
- 1 x set of crutches
- 2 x walkers
- 1 x cane
- 1 x shower chair
- 1 x bedside commode
- 1 x turning Wedge
- Wrist Restraints
- Vest & Mitt Restraints
- Gait belts
- Neck Braces
Manikins

SimMan 3G

A high-fidelity manikin that facilitates training of Basic and Advanced Life Support. The system allows the Instructor to effectively assess learners’ individual and team skills based on a realistic clinical situation.

SimBaby

Advanced infant patient simulator for team training. With realistic anatomy and clinical functionality, SimBaby allows learners to practice and perfect their skills in a risk-free environment.
Nursing Anne

A manikin designed for scenario-based training for the care and management of a wide variety of in-hospital patients. Nursing Anne is an efficient, effective, flexible manikin for clinical training in women’s health, obstetrics, post-partum, wound assessment and care, and general patient assessment and care.

SimJunior

Advanced pediatric patient simulator for team training. With realistic anatomy and clinical functionality, SimJunior allows learners to practice and perfect their skills in a risk-free environment.

Rescue Randy and Bariatric Suit

The Bariatric Rescue Manikin Suit replicates the weight and the movement in body tissue associated with morbidly obese patients. This simulation is made possible by an “exo-suit” which allows the user to add up to 440 lbs. of water.

Task Trainers and Health Education Models

“Surgical Sally” Bandaging Simulator

A readily available patient with 14 surgical wounds including a Mid-Sternal Split with two simulated drains, a sacral decubitus ulcer, and a leg amputation stump.

SAM Basic Sim Scope Task Trainer

This student auscultation trainer along with the SimScope stethoscope simulates heart, lung, and bowel sounds utilizing a large sounds library.
Life/Form GERi and KERi Optional Edema Foot with Deep Tissue Injury

The foot uses lifelike simulated tissue pads to demonstrate Stages 1+ through 4+, as well as a non-pitting stage of edema known as brawny edema.

'Pat' Pressure Ulcer Model

Displays various pressure ulcers and staging.

'Stan’ Stage IV Pressure Ulcer Model

Displays various pressure ulcers and staging. Useful for teaching and practicing wound care and dressing changes.

'Seymor’ II Wound Care Model

This life-like model permits the application and easy removal of dressings, without leaving an adhesive residue. Model is molded from an actual 74-year-old patient so it looks and feels like the real thing.

Life/form® Pressure Ulcer/Bedsore Model – Dark

Stage 1 - Reddening, unbroken skin
Stage 2 - Open wound that is reddened with partial skin loss
Stage 3 - Deep, open wound that reaches through all layers of skin and into the muscle
Stage 4 - Severe, deep, open wound that reaches through all layers of skin and damages muscle, bone, tendons, and joints

'Stan’ Stage IV Pressure Ulcer Model

This model features a large sacral Stage IV pressure ulcer, with eschar, subcutaneous fat, undermining, tunneling, slough, eschar and exposed bone with osteomyelitis and a Stage III pressure ulcer with subcutaneous fat and granulation tissue.
### Elderly Pressure Ulcer Foot

**Stage 1** - Located on the bottom of the toe. Surface of the skin is red.

**Stage 2** - Located on the bottom of the foot just under the toe. Surface of the skin is red and deeper into the skin layers.

**Stage 3** - Located on the side of the foot. Surface of the skin is red, looks more like a crater, and reaches the bottom layer of the skin.

**Stage 4** - Located on the heel of the foot. Surface of the skin is red. A great amount of tissue has been damaged, including muscle, bone, joints, and tendons.

### Unhealthy Foot Care Kit

An unhealthy foot model to help teach the importance of proper foot care and nutrition to people with diabetes.

### Negative Pressure Wound Care Trainers

These unique trainers have different depths of wound care, including tunneling.

### SimScope WiFi with Patch Kit

Sim Scope Patches are customizable and easily programmable for specific diagnostic case studies.

### ViScope for the Hearing Impaired

Cardionics ViScope™ is a digital electronic stethoscope which amplifies sounds 30 times louder than an acoustic stethoscope and provides a visual display of the phonocardiogram or phonopneumogram to assist the listener in identifying sounds.

### OtoSim

Integrated system that dynamically and interactively improves the accuracy of diagnosing pathologies of the ear through experiential learning. Both students and current professionals can practice to improve their knowledge-base of ear pathologies and otoscope technique.
OpthoSim

Through an actual ophthalmoscope, students can practice their examination technique with monocular vision while viewing through a realistic simulated-eye, complete with an adjustable iris.

Child Heart and Lung Assessment Trainer

Simulates various lung, heart, and voice sounds.

Health Assessment Tools

Basic Health Assessment tools including eye charts, flashlights, dopplers, skin calipers, BP cuffs, dual stethoscopes, thermometers, tuning forks, tongue depressors, rubber mallets, and speculums.

Diagnostic and Procedural Ear Trainer

Allows examiners to assess the human ear, diagnose common diseases, clean the ear canal, remove a foreign body, and perform a myringotomy with tube insertion.

Eye Examination Simulator

Designed to allow examination of eye grounds with the users own ophthalmoscope. Soft and supple manikin material allows hands-on practice of examination procedures, such as raising the eyelid.
Intramuscular Injection Model

This high-tech medical model with realistic skin is perfect for teaching proper injection techniques and how to avoid nerves and veins.

Intramuscular Injection Model of Upper Arm Muscles

High-tech model for teaching proper injection techniques and how to avoid injecting into nerves and veins.

Injection Belly (8)

Soft stomach replica useful for teaching subcutaneous injections and insulin infusion set placements. Can be used on Nursing Anne manikins.

Intradermal Injection Simulator

Allows students to practice intradermal injections safely and conveniently.

Venatech IM & SubQ Simulator (8)

Soft, life-like body parts used to practice intramuscular and subcutaneous injections safely. Because there is fluid in vessels deep within the simulated tissue, there is an actual possibility of seeing simulated blood in the hub of the needle on aspiration.

Intramuscular Injection Simulator

The bony structure provides palpable anatomical landmarks so students can identify proper injection sites. A section of the upper, outer quadrant of the left gluteal area is cut away to allow students to visualize the underlying structures.
Adult Advanced Venipuncture Arm
(2 Hispanic, 3 Black, 4 White, 1 Geriatric)

This training arm provides complete venous access for IV therapy and phlebotomy. Provides realistic blood flashback from pressurized fluid system.

Enema Administration Simulator

Simulator to teach proper enema procedures.

Rectal Examination Trainer

Realistic representation of the buttocks, anus and rectum allowing for the practice of diagnostic skills associated with rectal examination. An additional Rectal Examination Perineum is included which contains 2 rectal pathologies.

Ostomy Model

Model used for teaching and practicing colostomy appliance application.

Ostomy Care Simulator

Model used for teaching and practicing colostomy appliance application. Simulated stool can be pumped through the unit to provide drainage and excretion at the ileostomy and colostomy.

Otto Ostomy Advanced Model

3D digestive and urinary tract model helps students visualize the anatomy behind ostomies. This model comes with 14 stomas that can be interchanged.
Strap on breasts

*For training in the examination of the breasts, axillae, and clavicular regions. Useful for clinical breast examination techniques, identification of anatomical landmarks, and diagnosis of pathologies.*

Breast Self-Exam Forms

*The forms are embedded with five simulated tumors illustrating different types of common lumps in the breast. The forms may be examined while held over the woman’s breast, or while it lies in its carrying case.*

Testicular Exam Simulator

*Self-examination of the testicles is just as important as self-examination of the female breasts for early detection of tumors. Ideal for teaching proper palpation techniques.*

Catheterization Simulator (1 Male, 1 Female)

*Catheterization simulators allow demonstration and practice in urinary catheterization without embarrassment or discomfort to the patient or the students. In addition, catheterization simulators are useful for anatomical identification and demonstration of perineal care.*

Male and Female Catheterization Trainers Models Set

Chester Chest

*Chester Chest enables nurses, home health staff, patients and support persons to develop competence with the management of most common types of vascular access devices within one realistic and portable training aid.*
Pitting Edema Trainer

Assessment of staging, depth, and rebound time to baseline can be practiced using this trainer.

Respiratory Secretions Trainer

NG Tube and Trach Care Trainer

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. Lungs and stomach may be filled with fluid for gastric lavage and gavage.

Pumping Heart Model

Giant Heart with Pericardium and Diaphragm

Large heart model that separates into two parts, making it easy to trace blood flow through the chambers, valves and vessels.

Heart Disease Model Set

This heart disease model set includes a normal heart, a heart showing a partially healed, thinned, and discolored infarcted area, and a heart showing congestive heart failure as a result of hypertension.

Hypertension Model

This model shows the harmful effects of hypertension on the most susceptible organs.
Illnesses of the Esophagus

*Replicates reflux esophagitis, Barrett’s ulcer, esophageal carcinoma, esophageal varices, and hiatal hernia.*

4-Piece Bronchus Model

*Demonstrates the tissue changes that occur in asthma and chronic bronchitis, this four-stage cross section of the bronchus is a great hands-on teaching tool.*

Colon Model with Pathologies

*In addition to normal anatomy, this cross section of the colon also shows diverticulitis, colitis, polyps, and cancer that can occur in the colon.*

Nasogastric Tube Feeding Model

*This model contains a molded cast of the anatomy of the nose, mouth, pharynx, trachea, esophagus, and stomach.*

Hungry Manikin

*Demonstrates the technique for insertion of nasogastric and gastronomy tubes.*

Food Replicas

*Realistic, non-edible food models.*

Glo Germ

*Graphic illustration to show where bacteria can hide, the Glo Germ powder and oil reveal areas most often missed in hand washing.*
Visualize Portions

The colorful, 3-D models in this display teach portion awareness by relating common portion sizes to everyday objects.

Handy Portions

This innovative tablet shows viewers how to use their hands to measure portions based on ounces, cups, and more.

Fat Content Display

These unique tubes contain "liquifat" - simulated fat that oozes from one end of the test tube to the other to remind viewers that too much fat in the diet can lead to health problems.

Deluxe Occluded Artery Model

The tube represents an artery constricted by plaque, which forms on artery walls when there is excess cholesterol in the blood. When the model is turned over, the blood in the artery slows or stops completely.

Obesity Suit

Allows users to simulate true-to-life size for obese patients. Can be used with manikins or with live actors.

Physical Impairment Suit

This device allows students to personally experience age-related physical changes.
Energy Crisis Display

Abuse Booze and Lose Display

Reproductions of alcoholic beverages that contain information on consequences of alcohol abuse.

Consequences of Smoking Display

Secondhand Smoke Display

Drug Identification Guide

Show commonly abused drugs and drug paraphernalia in a whole new dimension.

Dangers of Sun Exposure Display
Oral Care Mouth

Sneezy Sam Germ Display

Consequences of Diabetes Model

3D models and straightforward text explain the negative effects diabetes can have on the body. A great tool for promoting awareness of this potentially devastating disease.

OB/GYN & Pediatric Specialty Equipment

Gynecologic Simulator

The gynecologic simulator is supplied with normal and abnormal cervices and uteri which can be easily changed.
Abdominal Palpation Model

*Ideal for palpitation of the abdomen and Leopold’s Maneuver.*

Advanced Childbirth Simulator

*A total simulator for demonstration of all standard obstetrical procedures: fetal palpation, episiotomy, breech birth, vertex presentation, normal birth, prolapse of umbilical cord, and C-Section delivery.*

The Empathy Belly Pregnancy Simulator

*A specially designed multi-component, weighted vest that allows men, women, boys, and girls to temporarily experience typical symptoms and effects of being pregnant.*

Fetal Heart Rate Monitor

Infant Scalp IV Trainer

*Simulated infant head with scalp veins designed for practicing neonatal peripheral venous access of the scalp veins.*

Pediatric IV Trainer

*Designed for practicing pediatric peripheral venous access.*
**PartoPants**

*PartoPants are a modified pair of surgical scrub pants worn by an actress to simulate childbirth*

**Infant Tracheostomy Care Trainer**

*The Infant Manikin can be used to teach basic tracheostomy skills. Cleansing and maintenance of the external tracheal site can be performed just as on an actual patient.*

**Baby Umbi**

*Designed for the practice of umbilical catheterization.*

**Infant Warmer**

*Tilting bed with rotary radiant heat, exam light, built in APGAR timer, and temperature control modes.*

---

**Advanced Practice Equipment**

**Joint Injection Trainer- Wrist**

*Model used for practicing soft tissue injection used for the treatment of injuries and arthritis.*
Joint Injection Trainer- Foot/ Ankle

Ingrown Toenail Removal

This model closely mimics an inflamed toe end and allows for procedures such as wedge excision, ring block and total ablation of the nail bed.

Medical Foot Model

Trimming and removal of toenails, callosities, & corns

Pediatric Lumbar Puncture

Adult Lumbar Puncture

Pediatric Suture Head

Trainer is used to assist in learning the techniques in the repair of almost any laceration to the face and scalp.

PICC Line Insertion Trainer

Upper torso model with right arm designed for practicing insertion, care and removal of Peripherally Inserted Central Catheter Lines.
Microscope

AMBU Intubation Trainer

Provides accurate simulation of mouth, nostrils, teeth, tongue, pharynx, epiglottis, vocal cords, trachea, esophagus, and lungs. Realistic lifting and tilting of head and movement of the spine.

Life/Form Simulated Burns Compete Set

The simulated burns are pliable and can easily be cut into any shape to fit on a human patient, patient simulator, or trainer. The pieces are reusable and come ready to wear.

eNasco Regional Brain (2-Part)

Life-size brain model with distinct color coding for the following regions: frontal lobe, parietal lobe, occipital lobe, temporal lobe, motor cortex, somatosensory cortex, limbic cortex, cerebellum, and brain stem.

Ventilator Test Lung

The Ventilator Test Lung holds 1.0 Liters and is latex free. This lung has a restrictor and has RP20 resistance. Compliance 22ml/cm @ 500ml Tidal Volume.

BAK-PAK II

Backboard with spider straps.

Medtronic Single and Dual Chamber Temporary External Pacemaker

Model 5392
Medtronic Single Chamber Temporary External Pacemaker

*Model 5348*

Spacelabs Digital Telemetry ECG Transmitter

*Training telemetry ECG transmitter unit.*

Life/Form Heart Catheterization Simulator

*Simulation for Total Parenteral Nutrition (TPN) and Central Venous Catheterization*

WV IV Pro

*Military grade IV Protection that does not use tape to secure the IV site.*

Life/Form Advanced Injection Belly

*This soft stomach replica is an invaluable tool for showing how to properly insert and rotate the infusion set for insulin pumps, avoiding the 2" (5 cm) area around the navel, as well as giving many types of self-injections (including pen-style injections).*

Life/Form Chest Tube Manikin

*This manikin is designed specifically to teach the theory, anatomy, and skills needed to manage chest trauma, as well as ongoing chest tube maintenance.*