

Howard University Health Sciences Simulation Center Center Capability, Equipment and Resources

“Promoting Patient Safety through Simulation Education and Deliberate Practice”

Simulation Center Staff

Director (Tamara Owens, MEd)
Medical Director (Debra H. Ford, MD)
Administrative Coordinator (A. Catherine Wright)
Simulation Educator (Tonya B. Hunter)
Simulation Technician (Debra H. Ford, M.D., currently recruiting)
IT Specialist (Anthony Slack)
General Surgery Clerkship Pathophysiology Course Director (Adedoyin Kalejaiye, MD)

Simulation Center Capability/Learning Spaces

Center Capability

- Improvised Technology
- Computer “Screen”-Based Simulation
- Task Trainers (Plastic models)
- Virtual Reality Trainers
- Human Patient Simulators

- Team Training
- Clinical Scenarios: basic to complex
- Paper Case Development for clinical scenarios
- Patient Safety Scenarios
- Interprofessional Education (IPE)/role play/clinical scenarios
- Bedside procedures: basic/complex
- Physical Diagnosis clinical skills training
- Ultrasound
- Operative procedures/skills training
- Laparoscopic skills training
- Endoscopy training
- Teleconferencing capability

- CME: external and internal
- Assist with Curriculum/Course Development
- Faculty Development
- Research in Education/Simulation
- Partnerships with HU undergraduate, graduate and professional schools and programs; partnership with HUH Graduate Medical Education Programs

Common/Administrative Spaces

Welcome/Waiting Area with Computer touchdown space (3 workstations)
Faculty/Staff Touchdown space with computer/internet access, Xerox, Kitchenette
Administration Suite

Learning Spaces

- Grand Multifunctional Conference Room (seats 28)
 - Also can be divided into 2 small spaces
- Debriefing Rooms (2) seats 10 each
 - Can be open to one large room
- Large/OR Simulation Suite
- Medium (OB/GYN/ICU/ECA) Simulation Suite
- Small Simulation Suite (PEDS, other)
- Task Training/Surgical Skills/Virtual Reality Suite

General Equipment/Services

Functioning Scrub Sinks (3)
Commercial Refrigerator/Freezer
Dishwasher
Hospital-grade headwalls in simulation rooms
Hospital ICU/ECA Monitor
Simulation Center Only Network
Simulation Center Guest Network
Access to the Howard University Network through server
Access to the Howard University Hospital via web
Telesurgery connection to Howard University Hospital OR Room 10 (future)
VOIP (Voice over IP phones)

Simulation Center Equipment/Resources

Audiovisual and Management Technology (Human Circuit)
SimCapture and SimBridge System (B-Line)
Mobile Sim Center Cart and Portable case (*to accommodate in situ simulations*)
Karl Storz Laparoscopic Towers, Laparoscopic instruments and box trainers (4)
(*Educational Grant awarded to the Department of Surgery*)
HP Desktop Computers
HP Laptops (20)
Surgical Instruments
Fundamentals of Laparoscopic Trainers (5) with accessories
(*\$15,000 donation from the Lasalle D. Leffall, Jr, MD Surgical Foundation*)
Laparoscopic trocars/instruments/sutures
(*Educational Grant from Ethicon Endosurgical/Ethicon, Inc.*)
FLS Exam Grade testing instruments

Human Patient Simulators

Laerdal SimMan 3G
Gaumard Noelle Birthing Simulator
 Two Birthing Fetuses
Tetherless Newborn Simulator
Tetherless Premie Simulator
5-year old Pediatric Hal Simulator

Virtual Reality

Simbionix GI/Bronch Mentor
 Upper Endoscopy
 Lower Endoscopy
 ERCP
 Bronchoscopy
 Bronchoscopy with Ultrasound
SurgiScience LapSim (General Surgery/Gynecology procedures)
Anatomage Medical Table
Vimedix Virtual Ultrasound Trainer (thoracic, abdomen and obstetrics/gynecology)

Simulab

TraumaMan System with ATLS Student Packs
TraumaChild System
VascularAccessChild Training Package
Arthrocentesis Model
CentralineMan Articulating Head (2)
CentralineMan System (3)
FemoraLineMan
Laparotomy Model (3)
Lumbar Puncture/Epidural Trainer
LumbarPunctureBaby System Training Package
Perineal Repair Trainer
Torso Trainer (for laparoscopic simulations)
Deluxe Venipuncture Tissue Pad Package

SonoSite Fujifilm

Ultrasound: SonoSite S-Vascular Access Bundle with L25x, and Stand (2)

Cardionics

Student Auscultation Manikin, SAM II with Cart and Low Frequency Speaker System,
Software, Sam Online
Dell Laptop

Southwest Medical

Steris Electric Surgical Table
Squire-Cogswell Aeros Suction Unit (MobileVac) (3)
SW Medical Stainless Steel Kickbuckets

Meadows Medical Supply

Aspirator – Vacutec
X-tra Utility Cart (2)
Folding Basket Cart (2)
Basket for Folding Basket Cart 6 – Black (2)
Basket for Folding Basket 12 Cart-Black (2)
Soiled Linen Hamper (2)
Infectious Waste Receptacles
Double Post Mayo Stand (5)
Kick Bucket w/Frame (2)
Foot Stool (5)
Roll-By Aneroid Suction
Dry Heat Sterilizer, Small

Auscultation Trainer, Scope, w/Speaker
Signature Stethoscope, Adult, Black (5)
Economy Diagnostics Set (3)
Ambu Silicone Resusitator – Adult (4)
Ambu Silicone Resusitator – Pediatric
Ambu Silicone Resusitator Infant

QuickMedical

IV Poles, Heavy Base w/4 Hooks (5)
Case Disposable Pillows
Case Heavy Duty Sheets
Case Pillowcases
Case Pediatric Exam Gowns
Face Mask with Ear Loops
Non-Skid Slipper Socks
Bouffant OR headwear
Surgeon's OR caps
Scrub Shirts/Pants
Shoe Covers
Deluxe Adult Soft Limb Restraints
Gloves S/M/L/XL

Pocket Nurse

Aneroid Vacuum Regulator-continuous and Intermittent for headwall systems (3)
Suction Canister (3) with ring holders
Medical air flowmeter Ohmeda for headwall (3)
Oxygen flowmeter for headwall (3)
Utility basket for headwall (6)
Birthing Suite with One Drawer and Shelf each
 Baby Bassinet with one drawer and shelf each
 Basic Infant Radiant Warmer for simulation
 Biohazard waste can 4 gallon
 Tanita Infant Scale
 Overbed Table
 Hill Rom Affinity II Birthing Bed with Mattress
 Neonatal Resuscitator with mask
 Flat and Fitted Sheets

Hill Rom Transtar 8000 Stretcher with Mattress (3)
Wall Clock (6)
Gooseneck Exam Lamp (3)
PPE Dispensing Units (2)
Isolation Gowns
Face Mask with ties/with Earloops
Gloves S/M/L/XL
Patient Gowns
Laerdal The Bag II Disposable Resuscitator, Adult (2); Pediatric (2)
John Bunn Vacutec 800 EV2 Aspirator (3)
Laryngoscope Handles (11 – med) (2 – small AA) (1)-small AA stubby
Laryngoscopy Macintosh/Miller Blades (18 – adult/peds)
Sterile Gowns (L and XL)
Surgeons Caps: Bouffant and OR
Shoe Covers
Scrub Brushes
Face Masks
Utility Shears
Disposable Scalpels
Suture Removal Kits
Staple Remover kits

NG Tube and Trach Care Trainer
Complete Arterial Stick Arm Kit
Arterial Stick Arm Only
Life/Form Intramuscular Injection Trainer

Limbs and Things

Advanced Venipuncture Arm Light Skin (2)
Advanced Venipuncture Arm Black Skin (2)
Advanced Venipuncture Arm Brown Skin (4)
Arterial Puncture Wrist (2)
Shoulder for Joint Injection
Hand & Wrist for joint injection
Elbow for joint injection
Foot and Ankle for joint injection
Advanced Catherization trainer (male and female interchangeable parts)
Male Catherization Trainer (2)
Female Catherization Trainer (2)
Basic Catherization Trainer
Examination and Diagnostic Breast Trainer
Breast Examination Trainer – Advanced (2) with 7 pathologies
May be used as task trainer or worn by a Standardized Patient
Clinical Male Pelvic Trainer
Clinical Female Pelvic Trainer
Clinical Female Pelvic Trainer – Advanced (2) with 6 pathologies
Rectal Examination Trainer - Advanced
Lumbar Puncture & Epidural Simulator
Eye Examination Simulator
Ear Examination Simulator
Laerdal Intraosseous trainer
Laerdal IV Torso (2)
Resusi Baby with SkillGuide
Resusi Junior with SkillGuide
Resusi Anne Full Body w/hard case (2)
'Nita' Newborn
NG Tube and Trach Care Simulator
AirSim Advance Intubation Model (2)
AirSim Advance Intubation Model w/breakout incisor teeth
AirSim Advance Intubation Model w/bronchus and teeth
AirSim Advance Combo Bronchi
AirSim Baby
AirSim Child
Cricoid stick simulator (2)
Injection trainer (intra dermal, subcutaneous and intramuscular) (20)
Pitting Edema Model
Cutdown Pads
PHaSES Abdominal Opening and Closure Trainer (6)
Colonoscopy Training Model (2)

CAE Healthcare

- GEN-II Automated Pump Ultrasound Central Line Training Model (Blue Phantom)
- Spinal, Epidural and Lumbar Puncture Training model
- Hand Pump Arm Model with Upper and Lower Ultrasound Tissue Inserts (PICC/Arterial line)
- Arm Model with upper and lower ultrasound tissue inserts (PICC/Arterial line)
- Midscapular Thoracentesis Ultrasound training model
- Chest tube and ultrasound guided thoracentesis model
- VIMEDIX Ultrasound Training Simulator
 - Abdominal Ultrasound
 - Transthoracic (TTE) Echocardiography
 - Transesophageal (TEE) Echocardiography
 - Obstetrics and Gynecology Ultrasound Simulator

OtoSim™

- OtoSim™ Otoscopy Training and Simulation System (3)
 - Pediatric Earform for OtoSim™ (3)
- OphthoSim™ Upgrade: Ophthalmoscopy Training and Simulation Kit (3)

Sawbones (Orthopedics only)

- Humerus (6)
- Tibia (6)
- Femur (6)
- Full Male Pelvis (4)
- Hand with Articulated Index Finger (6)
- Ulna and Radius (6)
- Scapula and Clavicle (4)
- Ankle (9)
- Foot (6)
- Elbow (4)
- Bone Clamp (2)
- Suture Training Kit
- Deluxe Complete Arthroscopy Simulation Bundle

updated 2/26/18