

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

*“Promoting Patient Safety through Simulation Education and Deliberate Practice”*

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## **Simulation Center Staff**

Director (Tamara Owens, MEd)

Medical Director (Debra H. Ford, MD)

Administrative Coordinator (A. Catherine Wright)

Simulation Educator (Debra H. Ford, MD and Tamara Owens, MEd)

Simulation Technician (Debra H. Ford, MD, 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