

# SIMULATION CENTER

2015 Annual Report

Simulation: Improving Patient Care



NYC  
HEALTH+  
HOSPITALS

SIMULATION  
CENTER



## About the Simulation Center

Established in 2010, the Simulation Center's mission is to improve the patient experience and the quality of care delivered at all of New York City Health + Hospitals facilities through evidence-based simulation education. New York City Health + Hospital's dedicated simulation hub and state-of-the-art simulation training facility is located on Jacobi Medical Center's campus.

The Simulation Center has implemented a Devolved Model of Simulation that expands the reach of simulation-based learning locally to New York City Health + Hospital facilities.

Currently, the Center and newly established satellite centers offers courses that have been developed based on an examination of root cause analysis, claims data, and hospital performance data. Team training is an integral part of the course design and delivery.

**The Simulation Center Hub**  
1400 Pelham Parkway South  
Building 4, 2nd Floor, Room 200  
Bronx, NY 10461

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# EXECUTIVE SUMMARY

Calendar Year 2015 marks the Simulation Center's fifth year of service to the clinicians and staff of New York City Health + Hospitals. The Simulation Center's core mission is to support the work of the Health + Hospitals system through clinical skills acquisition, teamwork and communication training to improve patient care. To date, we have trained over 14,000 learners in innovative, engaging, and fun, evidenced-based simulation experiences that help to promote the safe, quality care that is delivered to our patients and to improve their patient experience. Learners consistently rank our courses as a 3.75 out of 4, with excellent feedback. To date, we have built a cadre of 20 simulation instructors who provide simulation in various forms to clinicians and staff throughout the system. We have trained over 100 learners in the art of debriefing to improve the teamwork and coordination around our patient-Centered care.

Calendar Year 2015 brought over 2500 learners to the Simulation Center. Central Line Skills Placement, Advanced Airway Skills, Cardiac Code Team, Shoulder Dystocia Teamwork and Skills, and Postpartum Hemorrhage Teamwork and Skills courses continue to be our most popular courses offered.

Calendar Year 2015 marked the creation of two new core courses at the Simulation Center: a train-the-trainer model of our Debriefing for Behavioral Health Teams, course and Introduction to Debriefing, a one-day intensive debriefing course designed to expose new de-briefers to the foundational concepts in debriefing. These new, innovative communication-based, debriefing-focused courses at the Simulation Center are novel in simulation center programs.



The Simulation Center also collaborated with the nursing and respiratory care staff at Henry J. Carter Skilled Nursing Facility to create a hybrid simulation course to manage ventilator patients. Staff received two hours of didactic training at Carter on the care of ventilator patients, and then came to the Simulation Center for an additional two hours of hi-fidelity simulation in a course titled, "Using Simulation to Manage Airway Problems of Ventilator Dependent Patients."

The Simulation Center continued to play an important role in the system's fight against Ebola Virus Disease (EVD), as we assisted in the ongoing training of covered personnel in all of our acute care facilities, developed training aids, PowerPoints and videos of proper donning and doffing procedures for Personal protective equipment (PPE), and trained our Hospital Police how to don and doff PPE to assist our healthcare staff in care of a suspect or positive patient.

# EXECUTIVE SUMMARY

## CONTINUED

The Simulation Center continues to push simulation into all of the acute care facilities in a “devolved” model of simulation. With the Simulation Center as the hub, satellite Centers in Elmhurst and Harlem have opened and are providing simulation to learners within those facilities, eliminating the need to travel to the hub at Jacobi Medical Center.

These satellite centers are also providing better access to simulation in those facilities. The Simulation Center is also working with the Correctional Health Services to develop their own simulation center.

The Simulation Center was generously gifted with a \$400,000 grant from the Hospital-Medical Home program to improve inpatient quality and safety projects in the areas of maternal emergencies and neonate care. The Simulation Center was able to purchase two brand new full-bodied birthing simulators and a full-bodied hi-fidelity neonate that will be used for courses at the Simulation Center, and full-term and pre-term baby manikins, a variety of part-task trainers and iPads for every acute care facility, with the goal of having OB unit-based programs running in every facility by the year 2017.

The Simulation Center works closely with all of the units of the Medical & Professional Affairs division of the hospital system and quickly responds to emergent needs by developing simulations to drive new policy guidelines. This “modus operandi” sets the New York City Health + Hospitals Simulation Center apart from other simulation programs.



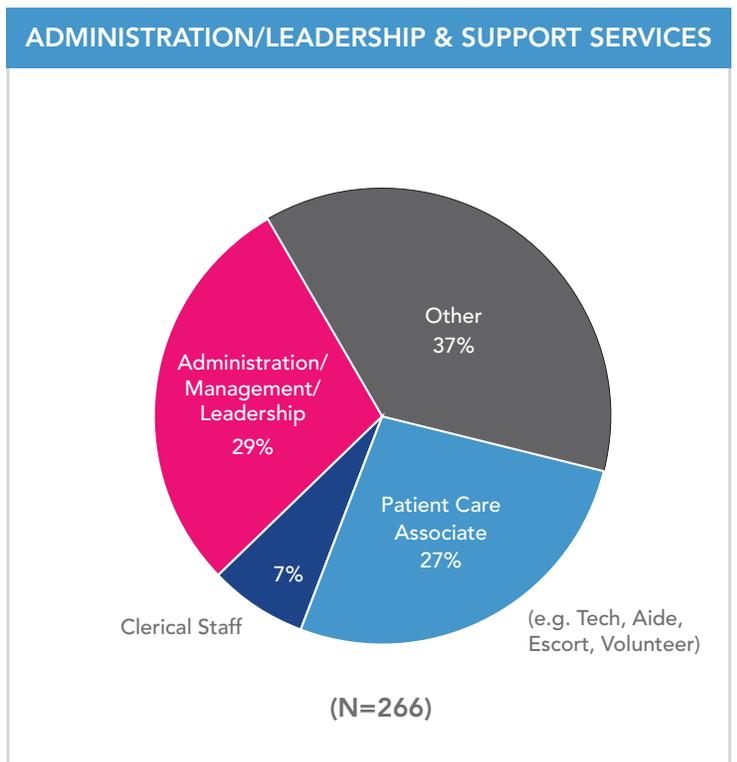
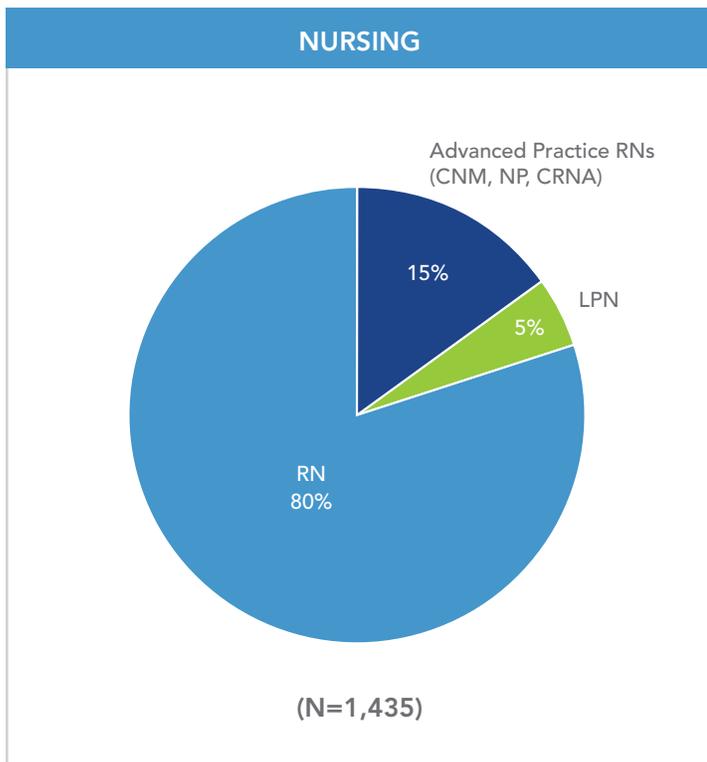
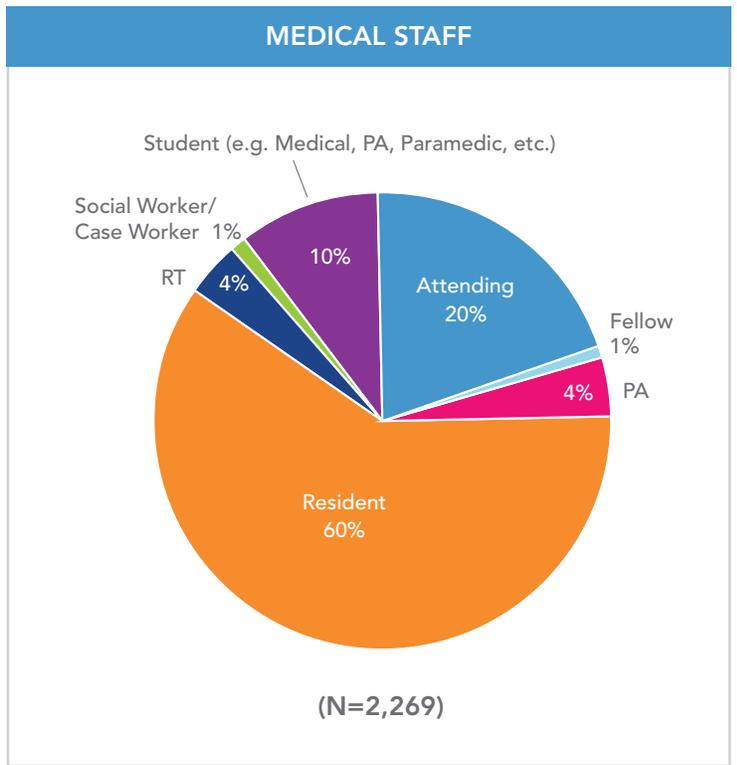
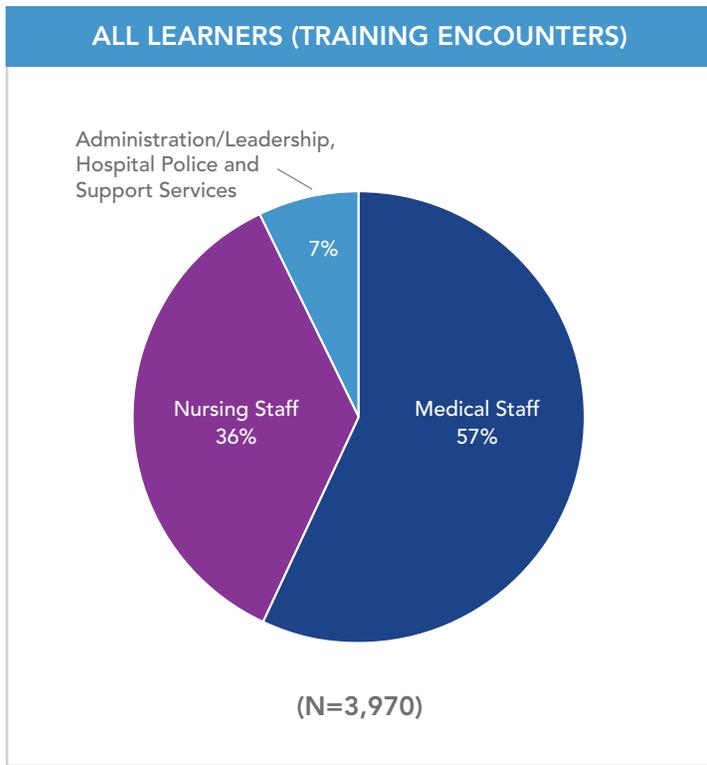
# EDUCATION ACTIVITIES

## COURSES BY VOLUME

Core Courses	Number of Sessions Conducted	Number of Course Hours Delivered	Number of NYC Health + Hospitals Staff Training Encounters
Introduction to Debriefing	4	28	66
Debriefing for Behavioral Health Teams	8	32	74
Postpartum Hemorrhage Teamwork and Skills Course	10	45	111
Shoulder Dystocia Teamwork and Communication Skills	16	64	93
Grand Rounds	12	48	413
Advanced Airway Skills	20	80	223
Live On NY Organ Donor Simulation Session	6	24	27
Mock Codes	1	3	8
Cardiac Code Team	30	90	309
Cardiac Code Team 2.0	8	24	66
Central Line Placement Skills	34	136	461
Pediatric Airway Skills	4	16	36
Pediatric Code Team	5	15	56
Active Shooter Drill Practice	3	6	83
Active Shooter Drill	1	7	38
Advanced Trauma Life Support (ATLS)	5	35	92
Immersive Obstetric Simulation Program	25	50	182
Using Simulation to Manage Airway Problems of Ventilator Dependent Patients	26	52	288
Birthing in Emergency Department	2	8	24
Trauma Resuscitation	19	38	138
Critical Care Nursing Skills	4	16	32
Hospital Police Personal Protective Equipment Donning and Doffing	2	4	23
Jacobi Emergency Medicine Med Students	3	12	22
Unit Based Simulation: Emergency Medicine	19	38	230
Virtual Reality Simulation: Laparoscopy	34	136	34
Virtual Reality Simulation: Bronchoscopy	4	16	21
WISER iSIM (Instructor Simulation) Course	1	21	24
Neonatal Resuscitation	17	119	141
Care Team Development Workshop	7	28	107
Information Technology Event	1	2	6
Critical Care Nurse Graduation	1	2	25
Montefiore Ultrasound Session	6	24	44
JMC/NCB Patient Restraint Course Train the Trainer	2	8	17
Simulation Symposium for Administrators	1	7	34
Unit-based Simulation: Obstetrics	42	84	413
<b>FY 2015 TOTAL</b>	<b>385</b>	<b>1,327</b>	<b>3,970</b>

# EDUCATION

## TRAINING ENCOUNTERS



# EDUCATION

## CORE CURRICULUM & NYC HEALTH + HOSPITALS FACILITY UTILIZATION

### A CLOSER LOOK BY FACILITIES

Facility	Core Courses Utilized	Number of Staff Engaged
New York Health + Hospitals/Jacobi	8	373
New York Health + Hospitals/Bellevue	5	159
New York Health + Hospitals/Woodhull	6	135
New York Health + Hospitals/North Central Bronx	7	95
New York Health + Hospitals/Elmhurst	4	84
New York Health + Hospitals/Harlem	5	71
New York Health + Hospitals/Kings County	5	70
New York Health + Hospitals/Queens	6	57
New York Health + Hospitals/Coney Island	3	43
New York Health + Hospitals/Carter	4	43
New York Health + Hospitals/Metropolitan	4	38
New York Health + Hospitals/Lincoln	5	21

### Key Stats

- All 11 acute care facilities utilized the Simulation Center.
- Top 5 Core Courses (by facility utilization):
  1. Central Line Placement
  2. Cardiac Code Team
  3. Advanced Airway Skills
  4. Postpartum Hemorrhage
  5. Shoulder Dystocia



### LEARNER INSIGHTS

“ One of the best parts of this was having the staff nurses join the training. In the past, ACLS trainings have only included MDs, so it was nice to have another venue to practice codes with the actual personnel we have in real life. ”

— L.D., MD Attending

# EDUCATION

## FACILITY-SUPPORTED COURSES AND EVENTS

### Facility-Supported Courses and Events in FY2015

- Advanced Trauma Life Support
- Breakthrough Rapid Improvement Event (RIE)
- Care Team Development Workshop
- Critical Care Nursing
- Emergency Department Nursing Competency
- Emergency Management Simulation and Skills
- Emergency Medicine Birthing Course
- EVD Readiness Program
- Grand Rounds
- Immersive Obstetric Simulation Program
- Neonatal Resuscitation Program
- Obstetric Team Orientation
- Organ Donor Management Using Simulation
- Simulation Administrators Symposium
- Trauma Resuscitation
- Ultrasound: Virtual Reality Simulation



### Key Stats

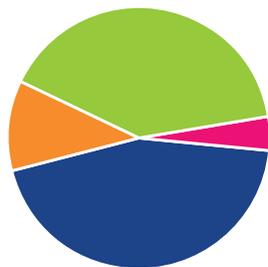
- 18 facility-supported courses and events
- 1,150 staff training encounters
- 389 course hours delivered
- 94 sessions conducted

In addition to the Core Curriculum courses offered year-round, the Simulation Center also provided support to numerous healthcare related courses/events offered

by NYC Health + Hospitals facilities. As a facility-supported course/event, Simulation Center faculty and staff collaborated with the visiting course/event planner to identify the need to deliver a course at the Simulation Center. The Simulation Center provided a wide range of support from basic space allocation to resource intensive support such as technical and clinical facilitation of a course or event.

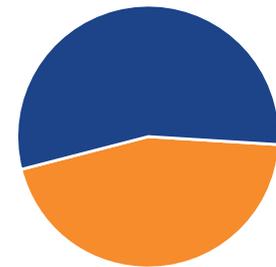
### FACILITY-SUPPORTED COURSES AND EVENTS BREAKDOWN

Learners of Facility-Supported Courses and Events



- Nursing Staff
- Medical Staff
- Allied Health Staff
- Support & Administrative Staff

NYC Health + Hospitals Core Courses & Facility Supported Courses by Number of Sessions Conducted



- Core Curriculum Courses  
n = 114 (55%)
- Facility Supported Courses / n = 94 (45%)

# CURRICULUM DEVELOPMENT

## EVD READINESS PROGRAM

In September 2014, with the increasing concerns of the likelihood Ebola Virus Disease (EVD) would be carried to the United States through international travel, NYC Health + Hospitals developed an EVD Preparedness Program using simulation. The Simulation Center collaborated with the NYC Health + Hospitals facilities to implement the program. Through simulation, we were able to evaluate the readiness of the NYC Health + Hospitals facilities to triage, assess, and treat suspected EVD cases.

### Key Accomplishments

- Developed EVD simulation scenarios with simulated patient and companion; The objectives of the EVD simulation include:
  - evaluating the state readiness
  - assessing adherence to prescribed algorithm
  - identifying system training needs
- Conducted EVD simulation in all NYC Health + Hospitals acute care hospitals
- Conducted debriefing with the facility leadership from Medicine, Nursing, and Infection Control
- Developed checklist for the following:
  - EVD Evaluation Algorithm
  - Isolation Room Standards (room design) customized to emergency department setting
- Developed educational tools on donning and doffing of Personal Protective Equipment (PPE)
  - Instructional training video
  - Procedure using pictorials
- Developed a competency-based train-the-trainer course for *Hospital Police PPE Donning and Doffing Procedures*; 17 hospital police, four nurse educators and one infection control staff completed the course.
- The successful implementation of NYC Health + Hospitals EVD Readiness Program was featured as a webinar, *Making it Count: Using Simulation for Ebola Readiness*, offered by the Society for Simulation in Healthcare. The webinar was a sold out event.

**NYC HEALTH + HOSPITALS**

### HEALTH ALERT

Individuals with fever who have arrived from the West African countries of:

- Guinea
- Sierra Leone
- Liberia

in the past 21 days should identify themselves to the Triage Nurse or front desk staff immediately.



### LEARNER INSIGHTS

“The Code course is very well taught, instructors are knowledgeable and also make the material entertaining so its easier and fun to learn! Great simulations, very realistic to actual code as much as is possible.”

— V.K., MD; PGY3

## LEVEL D EVD PPE: DOFFING

NOTE: Trained observer must wear face shield, impermeable gown, two pairs of gloves, and impermeable shoe and leg covers.

**NYC HEALTH HOSPITALS**

<p><b>1</b> <b>ENGAGE TRAINED OBSERVER</b></p> <p>Trained observer must wear face shield, impermeable gown, two pairs of gloves, and impermeable shoe and leg covers.</p> <p>Trained observer must wear face shield, impermeable gown, two pairs of gloves, and impermeable shoe and leg covers.</p>	<p><b>2</b> <b>INSPECT</b></p> <p>Inspect the PPE to assess for visible contamination, tears, or damage. If any PPE is visibly contaminated, then discard using a disinfectant wipe.</p>	<p><b>3</b> <b>DISINFECT OUTER GLOVES</b></p> <p>Disinfect outer glove with either a disinfectant wipe or alcohol-based hand sanitizer.</p>	<p><b>4</b> <b>DOFF APRON</b></p> <p>Do not touch the front surface of the apron. Roll the apron from inside to outside. Discard.</p>	<p><b>5</b> <b>INSPECT</b></p> <p>Inspect the PPE ensemble to assess for visible contamination, cuts or tears. If visibly contaminated, then discard PPE using a disinfectant wipe.</p>	<p><b>6</b> <b>DISINFECT OUTER GLOVES</b></p> <p>Disinfect outer glove with either a disinfectant wipe or alcohol-based hand sanitizer.</p>
<p><b>7</b> <b>DOFF SHOE AND LEG COVERS</b></p> <p>While sitting down, remove and discard shoe and leg covers.</p>	<p><b>8</b> <b>DISINFECT AND DOFF OUTER GLOVES</b></p> <p>Disinfect outer glove with either a disinfectant wipe or alcohol-based hand sanitizer. Remove and discard outer gloves taking care not to contaminate inner gloves during removal process.</p>	<p><b>9</b> <b>INSPECT AND DISINFECT INNER GLOVES</b></p> <p>Inspect the inner glove for visible contamination. If any PPE is visibly contaminated, then discard using a disinfectant wipe.</p>	<p><b>10</b> <b>DOFF FACE SHIELD</b></p> <p>Avoid touching the front surface of the face shield. Remove the face shield by tilting the head slightly forward while grasping the top edge allowing the shield to fall forward. Discard the face shield.</p>	<p><b>11</b> <b>DISINFECT INNER GLOVES</b></p> <p>Disinfect inner glove with either a disinfectant wipe or alcohol-based hand sanitizer.</p>	<p><b>12</b> <b>DOFF HOOD</b></p> <p>Unfasten impermeable hood, and discard. The trained Observer may assist with unfastening hood.</p>
<p><b>13</b> <b>DISINFECT INNER GLOVES</b></p> <p>Disinfect inner gloves with either a disinfectant wipe or alcohol-based hand sanitizer.</p>	<p><b>14</b> <b>DOFF GOWN</b></p> <p>Remove and discard gown with either a disinfectant wipe or alcohol-based hand sanitizer. Avoid contact of fabric with outer surface of gown during removal. Pull gown away from body, rolling inside-out and touching only the inside of the gown.</p>	<p><b>15</b> <b>DISINFECT CHANGE INNER GLOVES</b></p> <p>Disinfect inner glove with either a disinfectant wipe or alcohol-based hand sanitizer. Remove and discard gown with either a disinfectant wipe or alcohol-based hand sanitizer. Avoid contact of fabric with outer surface of gown during removal. Pull gown away from body, rolling inside-out and touching only the inside of the gown.</p>	<p><b>16</b> <b>REMOVE N95 MASK</b></p> <p>Remove the mask by tilting the head slightly forward while grasping the elastic strap and remove without touching the front of the mask. Discard.</p>	<p><b>17</b> <b>DISINFECT GLOVES</b></p> <p>Disinfect gloves with either a disinfectant wipe or alcohol-based hand sanitizer.</p>	<p><b>18</b> <b>DISINFECT SHOES</b></p> <p>Sitting on a clean surface (e.g., second clean chair, clean side of a stool/bench) using a disinfectant wipe to wipe down every external surface of the shoes.</p>
<p><b>19</b> <b>DISINFECT AND REMOVE GLOVES</b></p> <p>Disinfect gloves with either a disinfectant wipe or alcohol-based hand sanitizer. Remove and discard gloves taking care not to contaminate bare hands during removal process.</p>	<p><b>20</b> <b>PERFORM HAND HYGIENE</b></p> <p>Perform hand hygiene with alcohol-based hand sanitizer.</p>	<p><b>21</b> <b>INSPECT</b></p> <p>Perform a final inspection of N95 for any contamination. If contamination is identified, immediately inform the Infection Control, Occupational Health and Safety, and Simulation Center staff of the PPE removal area.</p>	<p><b>22</b> <b>SCRUBS</b></p> <p>HCW can leave PPE removal area wearing dedicated footwear and scrubs or disposable garments.</p>	<p><b>23</b> <b>SHOWER</b></p> <p>Showers are available for use. NOTE: If supervised occupational safety and health (OSHA) exposure policy.</p>	<p><b>24</b> <b>PROTOCOL EVALUATION</b></p> <p>Either the Infection Control, Occupational Health and Safety Coordinator, or the designated HCW at the time should meet with the HCW to review the protocol and any corrective actions performed to ensure the level of fatigue.</p>

# CURRICULUM DEVELOPMENT

## NEW AND PILOTED COURSES



### Immersive Obstetric Simulation Program

This a multi-disciplinary simulation-based learning experience that is based on the fundamentals of *ACOG Safe Motherhood Initiative*. The program is designed to facilitate the practice of teamwork and communication skills while using high-fidelity simulations followed by extensive debriefings on postpartum hemorrhage and eclampsia.

This program is an IRB-approved study evaluating efficacy of the Safe Motherhood Initiative checklists. It was conducted from March to June 2015. In all, 168 staff participated —131 nursing staff and 37 medical staff. A total of 23 sessions were conducted with 46 course hours delivered.

### Organ Donor Management Using Simulation

LiveON NY, formerly known as New York Organ Donor Network (NYODN) sought the Simulation Center's expertise and collaboration in order to develop an educational program on the management of organ donation using simulation. This pilot program ran from October to December 2014. Thirty one (31) NYOPD staff completed the four-module curriculum program designed to enhance proficiency in organ donor management and communication skills. The next phase of the project is to explore the possibility of marketing this customized curriculum to the Organ Procurement Organizations (OPOs) nationwide. This can lead to greater outreach and revenue-generated activity for the Simulation Center.

In addition to EVD Readiness program, the Simulation Center developed and introduced three new courses into its catalog. These courses ranged from train-the-trainer to a course participating in an IRB-approved study:

### Introduction to Debriefing

The Simulation Center developed a customized one-day debriefing course based on the Center for Medical Simulation (CMS) Simulation Instructor Training curriculum. The role of debriefing in simulation-based learning is essential as this process reinforces the lessons learned during simulation, thereby promoting behavior and culture change.

The reason for action to develop this program is to provide NYC Health + Hospitals simulation educators a formalized just-in-time training. The Simulation Center's Clinical Directors will serve as faculty. The first course was delivered in August 2015.

#### LEARNER INSIGHTS

“ This course was very informative and it helped me feel more confident in my abilities to help during a Shoulder Dystocia.

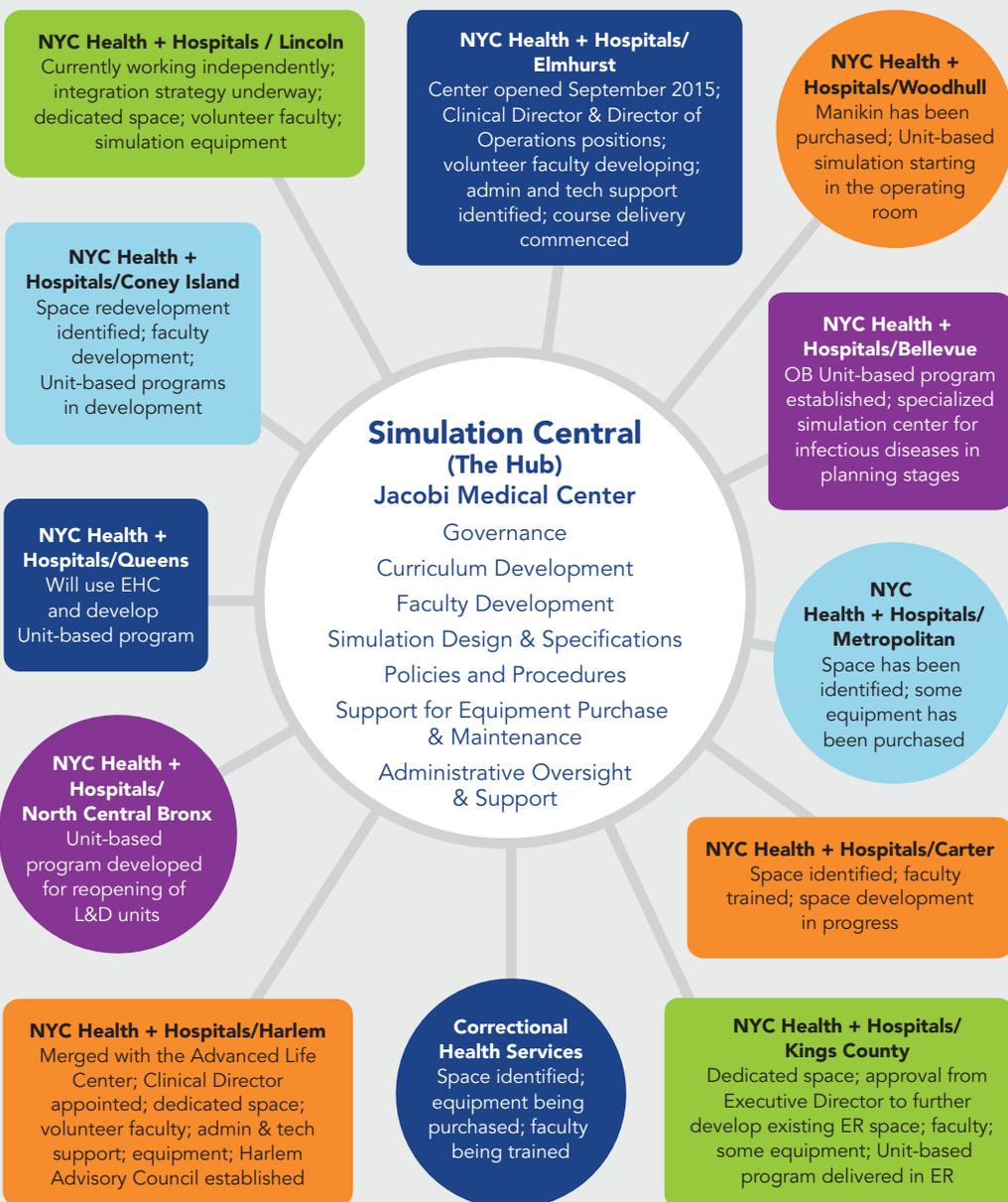
— K.B., RN ”

# EXPANDING SCOPE OF SERVICE

## DEVOLVED MODEL

### CURRENT STATE OF NYC HEALTH + HOSPITALS SIMULATION CENTER MODEL FOR DEVOLVED SIMULATION

The Simulation Center is implementing a Devolved Model to deploy simulation to all NYC Health + Hospitals facilities. In this model, Simulation Center Central ("the hub") is responsible to provide guidance and support to each satellite center while allowing them to identify and meet facility-specific need.



### What's the Latest?

- The Simulation Center Elmhurst Hospital opened on September 15, 2015.
- Simulation Center Harlem currently offers two of Simulation Center Central's core courses.
- Simulation Center Central is collaborating with *The Fund for NYC Health + Hospitals* to obtain grant funding to further build Simulation Center Harlem.

### LEARNER INSIGHTS

“ Well organized and well run course [Cardiac Code Team 2.0], provided non-judgmental environment that encouraged learning.

— M.K., MD ”

# EXPANDING SCOPE OF SERVICE

## UNIT-BASED SIMULATION

“Unit-based simulation” means simulation that is physically held in the real clinical setting. In March 2014, the Simulation Center began unit-based simulation in Emergency Medicine at Kings County Hospital Center. Since then, this particular form of simulation continues to grow across NYC Health + Hospitals.

### Key Accomplishments

- Established unit-based simulation program for Labor and Delivery team at Bellevue Hospital Center and North Central Bronx Hospital; 219 staff training encounters since launched.

### WHAT'S NEXT?

In May 2015, the Simulation Center began the collaboration with Jacobi Medical Center Labor and Delivery team to develop a unit-based simulation program to test the unit systems for escalation and emergency responses, and build teamwork.



A public hospital in the Bronx is preparing to reopen its delivery unit by putting the staff through a dress rehearsal, complete with a half-woman and a baby in trouble. By Channon Hodge on October 12, 2014. Photo by Michael Appleton for The New York Times.

- Three unit-based programs in operation to date; resulting in 316 staff training encounters.
- Collaborated with the North Central Bronx Hospital Labor and Delivery team and conducted unit-based simulation to prepare staff when the unit reopened to patient care. The successful collaboration and training were documented, filmed, and featured in *The New York Times*.

# RESEARCH ACTIVITIES

## Publications

Book Chapters: Creating Leadership and Buy-in & Healthcare Certification. (Walker, K. & Curran, I.) Palaganas, J., Maxworthy, J., Epps, C. & M. Mancini (Eds.), **Defining Excellence in Healthcare Simulation Programs**. Philadelphia, PA: Wolters Kluwer Lippincott Williams & Wilkins.

Uquillas, K., Lerner, V., Fitzgerald, K., Walker, K., Bajaj, K. **Measuring Safety Attitudes of Interprofessional Teams on Labor and Delivery**. *Journal of Interprofessional Care*. [Under Review.]

## Poster Presentations

Grock, A., Shin, R. **Advanced Cardiac Life Support re-certification, how and when should we re-certify: A randomized controlled trial**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Grock, A., Shin, R. **An Innovative Simulation Program for Multi-Specialty ACLS Training**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Kim, J., Legome, E., Papanagnou, D., Shin, R., Sinert, R. **Simulation to Evaluate Post-residency Retention of Ability to Perform Cricothyroidotomy in Emergency Medicine**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Papanagnou, D., Au, A., Desmond, C., Fields, M., Kim, J., Ku, B., Shin, R. **The Sound Way to Teach Ultrasound: How the Simulation Educator can Overcome the Learning Challenges Posed by Ultrasound-Guided Procedural Instruction**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Papanagnou, D., Arquilla, B., Desmond, C., Kim, J., Pohlman, K., Shin, R., Stetz, J., Wolfram, S. **A Radiological Dispersal Device Explodes in Brooklyn: A City-Wide, Multiagency, Simulation Disaster Drill**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Shin, R. **Custom Graphic User Interface in Electronic Medical Records to Reduce Medical Errors: A computer based simulation study**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Shin, R., Fan, L., Grock, A., Muhlfedler, D., Papanagnou, D., Ting, K. **Focused Assessment in Sonography for Trauma: Assessments with a high fidelity simulator**. 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

Shin, R., Fan, L., Grock, A., Papanagnou, D., Ting, K., Reisman, N. **Endotracheal Intubation for occasional and infrequent intubators: How often do we need to retrain?** 15th Annual Meeting Society for Simulation in Healthcare, New Orleans, LA., January 2015.

## LEARNER INSIGHTS

“Great class, hopefully all providers and healthcare team members will get access to this class.”

— L.O., RN ”

# RESEARCH ACTIVITIES

## CONTINUED

### Oral Presentations

- Bajaj, K., Appiah-Agyemang, A., Brown, P. **Using Simulation to Re-open an Inpatient Obstetrics Unit**, Regional Perinatal Network Annual Meeting, Bronx, NY. June 16, 2015.
- Bajaj, K., Birnbaum, A., Walker, K. **In-Situ Simulation: A Tool for Diagnosis and Management of Latent Error**. International Medical Simulation in Healthcare 2015 Annual Meeting, New Orleans, LA, January, 11, 2015.
- Bajaj, K., Birnbaum, A., Walker, K. **The Transformation of Healthcare: Using Simulation to Address the Nuances of Teamwork in Healthcare Teams**. International Medical Simulation in Healthcare 2015 Annual Meeting, New Orleans, LA, January 12, 2015.
- Bajaj, K., Walker, K. **Advances in In-Situ Simulation**. Grand Rounds Presentation, Department of Obstetrics and Gynecology, New York University. November 4, 2014.
- Bentley, S., **Implementation and Evaluation of a Novel Simulation Curriculum for Interdisciplinary Trauma Management and Team Training**. Presentation at the Symposium for Fellows in Healthcare Simulation at the New York Simulation Center for Health Science. April 4, 2015.
- Bentley, S., Lech C, England, P., Hu, K. **The Effects of Cardiac Arrest Simulation Education on Healthcare Providers? Adherence to ACLS Algorithms and Individual/Team Performance**. Poster presented at New York American College of Emergency Physicians, Scientific Assembly. July 2015.
- Bentley, S., Lech, C., Hu, K. **Cardiac Arrest Simulation Education: Adherence to ACLS Algorithms and Team Performance**. Poster presented at Council of Emergency Medicine Residency Directors, Scientific Assembly. March 2015.
- Meguerdichian, M., Papanagnou, D., Pohlman, J., Walker, K., et al., **Nuts and Bolts for Building Your Simulation Program**. IMSH 2015, New Orleans, LA, January 12, 2015.
- Pohlman, J., Dorazio II, V., Pohlman, K., **The Cutting Room Floor: Using Simulation to Reduce Turnover Time in the Operating Room**. IMSH 2015, New Orleans, LA, January 12, 2015.
- Pohlman, J., Pohlman, K., Meguerdichian, M, Papangnou, D., **Cause and Effect: Physiology for Behind the Glass**. IMSH 2015, New Orleans, LA, January 13, 2015.
- Pohlman, J., Walker, K., Bajaj, K. **Making it Count: Using Simulation for Ebola Virus Disease Readiness**. International Medical Simulation in Healthcare 2015 Annual Meeting, New Orleans, LA, January 13, 2015.
- Walker, K., et al., **Leadership in Healthcare Simulation in 2015: An Exploration of Current Leadership Trends and Lessons Learned from Successful Innovators**. IMSH 2015, New Orleans, LA, January 14, 2015.
- Walker, K., et al., **Developing a Highly Effective Simulation Program**. IMSH 2015, New Orleans, LA, January 10, 2015.
- Walker, K., et al., **Building a Cast Iron Simulation Program**. IMSH 2015, New Orleans, LA, January 11, 2015.

### LEARNER INSIGHTS

“The teaching strategies were good, especially the introduction asking what we knew and what we wanted to know and then reviewing what we learned.”

— C.E., MD; PGY1

# OUTREACH



*The Renaissance Middle School Nursing Club visits the Simulation Center.*

Outreach activities are an important component of sustainability as they create greater awareness of how simulation promotes a culture of patient safety. The Simulation Center continues to welcome the community, professional organizations and other visitors.

## Notable Highlights

- Our outreach extended across the world to Southeast Asia. The Simulation Center's Senior Simulation Specialist, Juan Cruz, MICP, was invited to participate in a medical mission to the Philippines as part of an Advanced Survey Team. Mr. Cruz provided logistical, medical, and education support during the mission. He brought the Simulation Center's Cardiac Code Team Response Course to the locals. The addition of this training lead to a change in the mission and philosophy of "Life is Great Global"—an international medical aid organization—where education and training assumed a more prominent role.

- In May 2015, the Simulation Center hosted the visit from the Renaissance Middle School Nursing Club. The club members are young individuals who have interest in the healthcare field.

Accompanied by their teachers, the twenty five (25) club members were engaged in live simulation of various life-saving skills such chest compression, manual ventilation and placement of artificial airway.

For the third consecutive year, the Simulation Center introduced these future doctors, nurses and other healthcare professionals to the field of "caring and saving."



*The Simulation Center's outreach extends to Southeast Asia, Philippines.*



# RESOURCES

## FACULTY AND STAFF

### LEARNER INSIGHTS

“ Well-organized and well-run course [Cardiac Code Team 2.0], provided a non-judgmental environment that encouraged learning. ”  
— M. K., MD



### Simulation Educators Resource Pool

This year, we have identified an additional 44 individuals from all 11 facilities who have the skills to be an effective simulation educator. All of them received formal training on healthcare simulation and education. The Simulation Center is committed to further developing this group of talent.

### The Simulation Center Resource Team

**Komal Bajaj, MD, FACOG, FACMG**

Clinical Director

**Juan Cruz, MICP**

Senior Simulation Specialist

**Andrew Ditchik, MD**

Faculty

**Steve Lichtenberg, NRP**

Simulation Specialist

**Tatiana Malvoisin, MS**

Simulation Coordinator/Specialist

**Michael Meguerdichian, MPH, MD**

Clinical Director

**Kimberley Miller, BBA**

Coordinating Manager

**Jessica Pohlman, MPA, NREMT-P**

Director of Operations

**Katie Walker, MB, RN**

Director

# RESOURCES

## FACULTY DEVELOPMENT

### FELLOWSHIP IN HEALTHCARE SIMULATION PROGRAM

Established in 2011, the Simulation Center Fellowship in Healthcare Simulation Program provides NYC Health + Hospitals staff an opportunity to gain broad scholarly and practical exposure to the field of healthcare simulation. This year, the following Fellows successfully completed the program:



**Suzanne Bentley, MD**  
Elmhurst Hospital Center  
Emergency Medicine



**Richard Shin, MD**  
King County Hospital  
Emergency Medicine



**Kristen Uquillas, MD**  
Bellevue Hospital Center  
Obstetrics & Gynecology

### THE GOAL

The overall goal of faculty development is to facilitate the integration of experiential learning concepts into education curriculum development and delivery.

### WISER iSIM Symposium

In April 2015, the Simulation Center hosted Simulation Symposium with a three-day WISER iSIM Course. Twenty-five (25) staff from across NYC Health + Hospitals completed the training that will enable them to develop proficiency in using simulation in healthcare education.

### International Meeting for Simulation in Healthcare (IMSH)

In January 2015, select Simulation Center faculty attended the annual International

Meeting for Simulation in Healthcare (IMSH). IMSH has been the premier healthcare simulation educational event worldwide.

Katie Walker, RN, Simulation Center Director, was a key contributor/presenter at the event. In addition, Simulation Center faculty authored several poster presentations which were featured during this international meeting. Our faculty brought back from the conference the latest information on products, services, and technologies in healthcare simulation.



### LEARNER INSIGHTS

“Excellent instructors, held everyone’s attention for the three hours and kept enthusiasm high.”

— B.S., MD; PGY3

# NYC HEALTH + HOSPITALS SIMULATION ADVISORY COUNCIL

The Council provides general advice and counsel with regard to the strategic direction of the Simulation Center program. It recommends preferred metrics and data inputs for program development and evaluation. Annually, the Council reviews the Simulation Center mission and vision and provides guidance for Simulation Center's annual work plan for strategic development and quality improvement. Membership consists of selected NYC Health + Hospitals leadership and key stakeholders.

<b>Machelle Allen</b>	Healthcare Improvement, NYC Health + Hospitals
<b>Janette Baxter</b>	Risk Management, NYC Health + Hospitals
<b>Raven Carter</b>	Patient Centered Care, NYC Health + Hospitals
<b>Arthur Cooper</b>	Professor of Surgery, NYC Health + Hospitals/Harlem
<b>Laura Evans</b>	Chief of Pulmonary/Critical Care, NYC Health + Hospitals/Bellevue
<b>Caroline Jacobs</b>	Chief Patient Safety Officer, NYC Health + Hospitals
<b>Lauren Johnston</b>	Chief Nursing Officer, NYC Health + Hospitals
<b>Paul Kastell</b>	Chief of Obstetrics, NYC Health + Hospitals/Woodhull
<b>Carl Kirton</b>	Chief Nursing Officer, NYC Health + Hospitals/Lincoln
<b>Eric Lagome</b>	Chief of Emergency Medicine, NYC Health + Hospitals/Kings County
<b>John Maese</b>	Medical Director, NYC Health + Hospitals/Coney Island
<b>Evelyn Montecer</b>	Nursing Education, NYC Health + Hospitals/Lincoln
<b>Katie Walker</b>	Simulation Center Director
<b>Bill Walsh</b>	Senior Vice President, NCBH Network
<b>Ross Wilson</b>	Chief Medical Officer, NYC Health + Hospitals

## **Simulation Center Website**

[www.nychealthandhospitals.org/simulationcenter](http://www.nychealthandhospitals.org/simulationcenter)



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