



NYSIM

THE CITY UNIVERSITY OF NEW YORK | NYU GROSSMAN SCHOOL OF MEDICINE

ANNUAL
REPORT
FY 2022



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MESSAGE FROM THE ASSISTANT DEAN OF SIMULATION EDUCATION & ADMINISTRATIVE DIRECTOR

The New York Simulation Center for the Health Sciences (NYSIM) had a busy and dynamic year, marked by extraordinary growth. Utilization soared and topped the pre-pandemic number of learners and sessions we supported. This 2022 annual report reflects the increase in programs, but cannot capture the conscientiousness and dedication of the NYSIM team who adjusted to the increase in utilization without increasing the number of staff through efficiency, hard work, and commitment to excellence. In addition, team members became engaged in poster presentations at national and local meetings, quality assurance, and continued to enhance the culture at NYSIM to ensure well-being of the team.

This year, NYSIM welcomed two new Associate Medical Directors, Joanne Agnant, MD, MSc and Deepak Pradhan, MD, FCCP, ATSF, MHPE (candidate). They are experts in simulation with distinct clinical backgrounds, contributing to their early successes at NYSIM. Together they quickly formed a partnership, engaged with faculty to design and implement programs, and gained in-depth knowledge of NYSIM systems. They integrated into NYSIM culture seamlessly. In July 2022, they launched the newly revised Fundamentals of Simulation Education (FUSE) course that consistently got rave reviews from participants and increased demand from diverse disciplines and schools. The revised course meets the needs and expectations of the learners, with each finishing the course with a fully developed simulation case to implement immediately.

It is our great pleasure to lead NYSIM through changes and expanded programming to meet our mission to provide simulation education to improve quality of care, patient safety, and effective communications. In the coming year, we anticipate continued growth, and look forward to maintaining high quality and excellence in all aspects of the center's operations and simulation education programs.



DONNA P. PHILLIPS, MD
Assistant Dean
of Simulation Education



KATIE E. TAME, MS, CPXP
Administrative
Director



MISSION, VISION, AND GUIDING PRINCIPLES

MISSION

The mission of NYSIM is to provide simulation education and research that fosters quality care, patient safety, and effective communication with patients and among health care professionals.

VISION

NYSIM will be the hub of simulation education in the health sciences at CUNY & NYU Langone Health and through its simulation education and research, will improve health outcomes, equity, and safety.

GUIDING PRINCIPLES

We will:

1. Expand NYSIM accessibility for all learners
2. Assess educational and health outcomes through research and data analysis
3. Cultivate a culture of continuous improvement in our educational programs focusing on quality, safety, and research
4. Continue education consultations to ensure high-quality simulation activities across disciplines
5. Model teamwork, communications, respect, kindness, diversity, excellence, and collaboration throughout NYSIM to create a safe, non-judgmental learning environment
6. Increase our visibility locally, nationally, and globally

STEERING COMMITTEE

The New York Simulation Center for the Health Sciences is governed by the NYSIM Steering Committee. The NYSIM Steering Committee is composed of two representatives from The City University of New York (CUNY) and two representatives from the NYU Grossman School of Medicine (NYUGSOM).



Steven Abramson, MD
Sr. Vice President and Vice Dean for Education, Faculty and Academic Affairs
NYU Grossman School of Medicine



Patricia Simino Boyce, PhD, RN
University Dean for Health and Human Services
The City University of New York



Kirk N. Lawson, MBA
Associate Dean for Academic Planning and Innovation, Education, Faculty and Academic Affairs
NYU Grossman School of Medicine



Robert T. Maruca
Associate University Provost for Planning
The City University of New York

EXECUTIVE SUMMARY

In July 2022, Dr. Joanne Agnant and Dr. Deepak Pradhan joined The New York Simulation Center for the Health Sciences (NYSIM) as Associate Medical Directors. Dr. Agnant and Dr. Pradhan provide leadership and expertise, enhancing the quality of our simulation activities and will continue to carve a path of innovation and distinction in the realm of simulation education. Together, they will lead simulation education and research to improve health outcomes, equity, and safety for all patients. In collaboration with faculty across NYU Grossman School of Medicine (NYUGSOM) and The City University of New York (CUNY), they will foster an environment of continuous improvement, teamwork, communication, respect, diversity, and excellence.



Joanne Agnant, MD, MSc, the Associate Director of the Pediatric Emergency Medicine (PEM) Fellowship Program at NYU Langone Health, joined the NYU family as a PEM Fellow in 2010. After completing her fellowship, she joined the faculty as an Assistant Professor, obtaining a Masters in Clinical Investigation at NYU Langone Health's Clinical & Translational Science Institute (CTSI). Her professional interests include medical education for fellows, residents, medical students, and nurses, with a focus on simulation-based medical education and process improvement. Dr. Agnant is also interested in well-being, mentorship, diversity equity and inclusion, and providing compassionate and equitable care to our diverse patient population.



Deepak Pradhan, MD, FCCP, ATSF, MHPE (candidate), is the Associate Program Director of the NYUGSOM Pulmonary & Critical Care Medicine (PCCM) Fellowship, Co-Director of the Bellevue Venous-Venous ECMO Program, Faculty in the Special Pathogens Program and the National Emerging Pathogens Training and Education Center. He completed his residency training in Internal Medicine at Brown University and was a PCCM fellow and Chief fellow at NYU. He is currently completing a Master in Health Professions Education at NYU/Maastricht University. He attends in the Medical Intensive Care Unit at NYULH Tisch Hospital and Bellevue Hospital. His interests include point-of-care ultrasound, simulation, procedural competency, faculty development, and medical education.





WHAT GOALS DO YOU HAVE AND WHAT ARE YOU EXCITED TO ACCOMPLISH IN THIS ROLE?

Dr. Agnant: *"As Associate Medical Director, I look forward to working with the NYSIM team as we grow our simulation-based health professions educational programs for NYUGSOM and CUNY. Deepak and I are excited about the positive feedback we've received with the revised NYSIM Instructor Course (NIC), now called Fundamentals of Simulation Education (FUSE) and look forward to continuing to help our many health professions educators develop their skills in simulation case development, management, and debriefing. I am eager to get to know our various educational leaders and collaborate to design, implement, and evaluate programs that will educate our future healthcare force and improve health outcomes, equity, and safety for all of our patients. I am grateful for this opportunity to grow as an educator and make a difference!"*

Dr. Pradhan: *"As Associate Medical Director, I want to merge my passion for medical education with the simulation-based activities occurring at NYSIM. I'm excited to help educators at NYUGSOM and CUNY develop their simulation skills and improve the quality of their simulation projects and programming, with a focus on improving the educational environment and ultimately patient care. I want to stress collaboration and innovation amongst our educators, and provide guidance for turning simulation into scholarship. I firmly believe that alongside the great team and incredible resources we have here at NYSIM, we will continue to be one of the preeminent simulation centers in the country."*



EVOLUTION OF NYSIM PROGRAMS

NYSIM INSTRUCTOR COURSE TRANSFORMED INTO FUNDAMENTALS OF SIMULATION EDUCATION

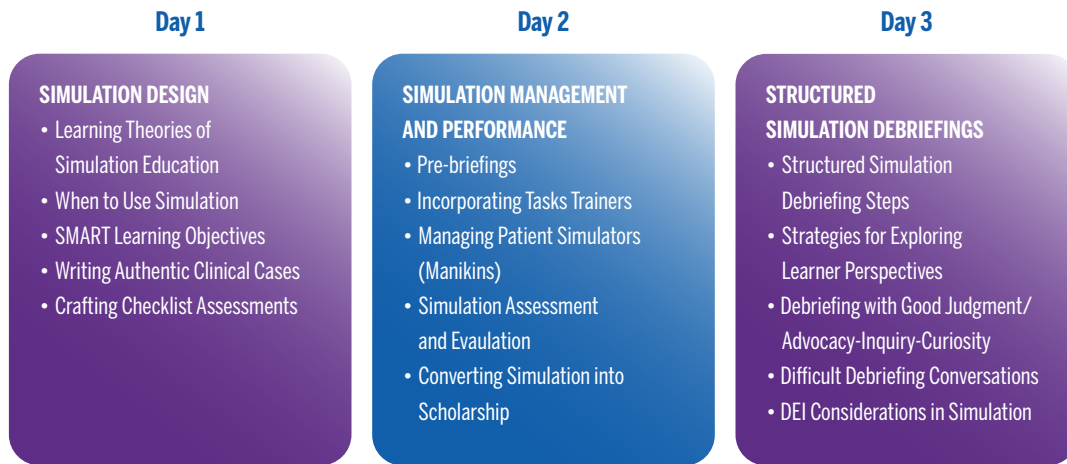
Dr. Agnant and Dr. Pradhan assumed the teaching of the NYSIM Instructor Course (NIC), an immersive experience for all levels of simulation instructors from The City University of New York (CUNY) and NYU Langone Health (NYULH). To ensure that our NYSIM Instructor Course was meeting the needs of our community of educators, they completed a needs analysis of future course participants via a targeted survey questionnaire. A total of 19 respondents answered that their future educational learning objectives include: recognizing when to use simulation, crafting case scenarios, writing effective learning objectives, conducting pre-briefings and establishing psychological safety, running a patient simulator, leading a structured debriefing, creating assessments, evaluating their simulations, and converting their work into scholarship.

In response, Drs. Agnant and Pradhan revised NIC, creating a new, comprehensive three-day course in simulation education, entitled Fundamentals of Simulation Education (FUSE). Day 1 focuses on Simulation Design, Day 2 on Simulation Management and Performance, and Day 3 on Structured Simulation Debriefings. FUSE is designed as a workshop where participants take their own idea for a simulation and develop their skills to craft learning objectives, write their case scenario, create a checklist of simulation performance, pilot their simulation, and engage in debriefing practice, all while receiving feedback from a multidisciplinary community of educators (individual work, pair-sharing, small- and large-group discussions, and hands-on deliberative practice).

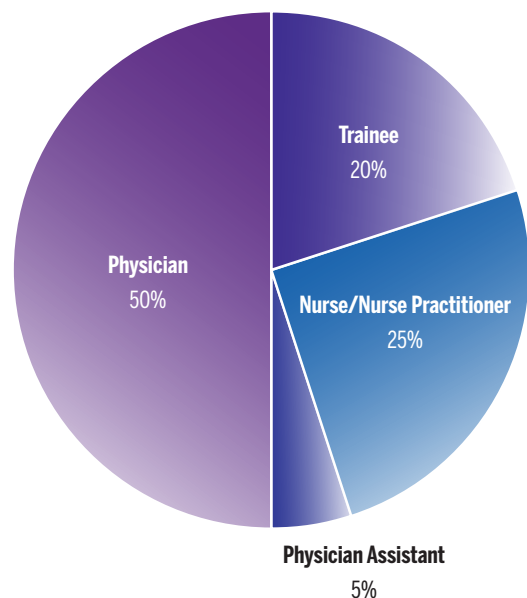
Twenty four learners have completed the new Fundamentals of Simulation Education (FUSE) course thus far. Mean knowledge test scores rose from pre-course 50% to 80%, $p < 0.001$. Learner confidence increased statistically for all learning objectives, $p < 0.001$. Participants uniformly shared exemplary reviews, including:

- “The course was extremely helpful and well-designed”
- “Extremely beneficial to give us all the opportunity to run our own cases”
- “Will definitely take my sim skills to the next level”
- “This was a transformative experience for my career”
- “This revamped course is amazing”





In FY22, NIC and FUSE learners represented diverse clinical education roles including attending physicians, clinical instructors, GME trainees, nurse educators and professors from NYUGSOM and CUNY, representing a multitude of disciplines including: Cardiology, Critical Care Medicine, Dental Anesthesia, Emergency Medicine, Family Medicine, Infectious Diseases, Neonatology, Neurology, Obstetrics/Gynecology, Oncology, Pediatric Emergency Medicine, Pediatrics, Physical Medicine & Rehabilitation, Psychiatry, Social Work, and Speech-Language Pathology.





FIRST NIGHT ON-CALL INTERN ORIENTATION (FNOC)

NYSIM's First Night On-Call Intern Orientation (FNOC) originated in 2017 and has adapted to the needs of learners, the health system, emergent public health issues, and have been responsive to feedback from program directors. Initially, the program was structured as a four-hour immersive simulation. In 2020, COVID impacted the structure and curriculum of the program and as a result, it was condensed to a three-hour immersive simulation. Since 2020, the intern orientation incorporated a manikin-based team simulation activity combining the practice of donning and doffing personal protective equipment (PPE) with a medical resuscitation. Additionally, a gamification strategy was utilized to help incoming interns recognize and address common safety hazards in the clinical environment. The Group Objective Structured Clinical Examination (GOSCE) experience highlighting escalation and checking two identifiers continues to be a highlight for interns. Each year, the resource guide is updated with the most current and pertinent information and has been expanded to include patient experience and additional wellness support resources.

Over the last six years, a total of 1,135 NYUGSOM interns participated in the orientation including 220 interns from across 27 residency programs in 2022. Throughout all of these changes, FNOC continues to provide interns with valuable resources to support their well-being and quality of care, and safety. NYSIM collaborated with NYU Long Island School of Medicine (LISOM) to replicate FNOC. In 2022, they completed their third FNOC.

NOTEWORTHY AT NYSIM

UTILIZATION

NYSIM reached a significant milestone in FY22, achieving a record increase in the number of program sessions, hours of instruction, and learners and faculty participating in simulation activities.

Compared to FY21:

- Faculty and learners coming to NYSIM:
 - 20% increase overall
 - CUNY alone increased by an astounding 69%
- Number of sessions: 4% increase
- Total hours of instruction: 9% increase

STANDARDIZED PARTICIPANT (SP)

Quality Assurance

Ginny Drda, NYSIM SP Educator, and Meg Anderson, NYUGSOM SP Educator shared best practices for conducting and tracking quality assurance (QA) of standardized participant (SP) case portrayal and feedback with the goal to enhance program quality. A formal program was piloted, and systematic observations of new hire observations were initiated. NYSIM onboarded 22 new SPs this year.

Professional development is provided by offering specific, constructive, timely feedback to new hires, SPs new to cases, and seasoned SPs. In FY23, the SP QA will be fully launched and expanded with the goal to develop a strategic observation schedule, increase the number of observations, expand the scope of the type of programs to include, and implement inter-rater reliability amongst SP educators.



Cultivate a culture of continuous improvement in our educational programs focusing on quality, safety, and research

Diversity, Equity, and Inclusion (DEI) and Healthcare Disparities Case Library

NYSIM is committed to serving as a resource for our learning community and set out to review OSCE cases and assessments with DEI-focused learning objectives to create a DEI case library. Brielle Blatt, SP Program Supervisor, reviewed 350 cases, and of these identified 49 as possessing DEI-focused learning objectives, and were categorized into three areas: Healthcare disparities, Bias, and LGBTQIA+ health.

DEI Categories	Number of Cases
Health Disparities: Global Health & Limited English Proficiency	24
Bias	10
LGBTQIA + Health	15

NYSIM believes DEI and health equity education should be accessible and authentic for our learning community, and engage DEI leadership and elicit SP feedback when writing new cases. Our approach to creating a DEI case bank was presented nationally at the Society for General Internal Medicine (SGIM) in April 2022. The poster was titled: “Addressing Diversity, Equity, and Inclusion in Simulation through Development of a Central Education Resource: OSCE Case Library and Diverse Standardized Patient Workforce.” In the coming year, we will track usage and continue to advocate for DEI curriculum among health professionals to benefit patients and improve health equity.



Cultivate a culture of continuous improvement in our educational programs focusing on quality, safety, and research



Assess educational and health outcomes through research and data analysis



Increase our visibility locally, nationally, and globally

Simulator Training

NYSIM provided training for more than 21 faculty from CUNY and NYUGSOM to learn how to operate simulators. Pablo Heredia, SIM Program Supervisor, and Cynthia Reyes, Senior Simulation Operations Associate, led the trainings and tailored instruction based on the faculty’s interest and level of experience.



Expand NYSIM accessibility for all learners



Model teamwork, communications, respect, kindness, diversity, excellence, and collaboration throughout NYSIM to create a safe, non-judgmental learning environment

Team Engagement

In the Fall of 2021, staff were invited to complete an engagement survey. A remarkable 100% (N=13) of NYSIM staff completed the survey and the impressive results align with our principle below.



Model teamwork, communications, respect, kindness, diversity, excellence, and collaboration throughout NYSIM to create a safe, non-judgmental learning environment

100% of NYSIM staff agree:

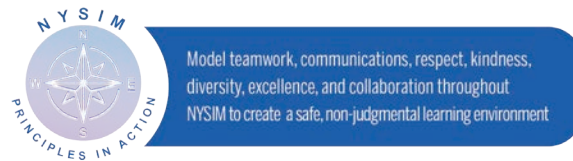
- I have the systems and processes I need to do my job effectively
- I am treated with respect and dignity at work
- The people I work with practice open, honest, and direct communication
- I work in an environment where discriminatory practices and offensive behaviors are not tolerated
- The person to whom I report encourages an environment where individual differences are valued

In the Spring of 2022, Sam Forbes, NYULH Patient Experience Improvement Strategist & Educator, facilitated an in-person focus group with staff to discuss the findings and evaluate areas for improvement.

NYSIM team members consistently demonstrate a commitment to growth and excellence, and each person contributes to the positive, productive, and respectful work environment at the center. We are very proud of these results and remain focused on sustaining and elevating a culture where engagement, appreciation, empowerment, and well-being are valued and prioritized.

Team Engagement Committee: Staff Professional Development

NYSIM's team engagement committee (TEC) includes: Katie Allen, Operations Manager, Ryan Zurich, Program Manager, Brielle Blatt, SP Program Supervisor, Tom Vongbandith, Senior Systems Analyst, Stacy Lee, Project Associate, and Cynthia Reyes, Senior Simulation Operations Associate. They surveyed staff to learn their professional development goals, and discovered staff were most interested in how they can contribute to fostering an inclusive environment at NYSIM. The TEC coordinated staff empathy, bias and LGBTQIA+ trainings to help team members develop the tools to respectfully and positively interact with everyone supporting and participating in NYSIM programs. All new hires attend "Crucial Conversations" to learn the communication skills framework for managing difficult conversations, introduced at NYSIM in FY21.

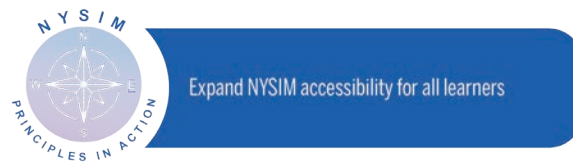


Classroom Refresh Improvement

The NYSIM Classroom Refresh Project was a capital improvement to upgrade the hardware and infrastructure of the 4 classroom projectors, allowing for a better learning experience for our faculty and learners. Led by Tom Vongbandith, Senior Systems Analyst, the updated projectors now use laser technology that can project up to 4k resolution, and eliminates the need to replace any bulbs. Also by adding a Cisco A/V infrastructure into the rooms, faculty and learners can seamlessly connect to the classrooms through an integrated WebEx teleconferencing system. This system gives users the ability to connect their devices, such as a smartphone or laptop, to the projection system wirelessly.

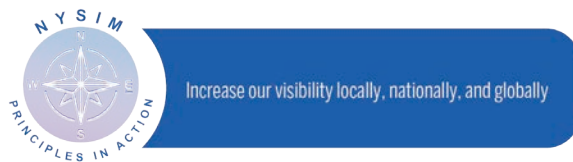
Community-based Programs

NYSIM was honored to support programs that introduce young students to various healthcare professions and specialties within medicine. We hosted a Perry Initiative and College to Career Lab, both with the goal of increasing Orthopedic Surgery interest for women and under-represented students in medicine. These programs brought 89 middle, high-school and college-aged learners from local communities to our center to expose them to education and careers in medicine and sciences.



NYSIM Newsletters

NYSIM newsletters are regularly distributed as a way to stay connected with our simulation community. Authored by Ryan Zurich, Program Manager, they feature a variety of information, including: new equipment, educational events or professional development opportunities, important center updates, and team member introductions. In the last fiscal year, 8 newsletters were distributed.



Website Inventory Pages Redesign

Cynthia Reyes, Senior Simulation Operations Associate, and Pablo Heredia, SIM Program Supervisor, collaborated to improve the user's experience when navigating the NYSIM website. The equipment section on the NYSIM website was redesigned to allow our users to easily access information on all manikins, task trainers, and clinical equipment by category and includes pictures, bulleted descriptions, and web links.



Expand NYSIM accessibility for all learners

Equipment

At NYSIM, we strive to meet all of our community's learning needs by researching and acquiring new educational tools. NYSIM is pleased to share the new equipment, accessories and task trainers acquired in FY22 to improve and expand our simulation education resources. NYSIM educates with the latest simulation technologies available—whether to master a procedural skill or to increase the realism of a simulated patient encounter.

To view a complete list of educational inventory here at NYSIM, please visit our website: <http://nysimcenter.org/equipment>

- Advanced Pediatric HAL
- Knot Tying Trainers
- Abdominal Palpation Examination Trainers were utilized in the following programs:
 - CSOM M3 Teaching Physical Exam Skills SIM
 - CSOM SOL Clinical Skills SIM
- R Series Plus Defibrillator with Expansion Pack
- Kangaroo Pumps
- Alaris Pump 8015
- Alaris Pump Channel 8100
- Female and Male Foley Catheterization Trainers on stands
- Musculoskeletal Knee Ultrasound Training Models were utilized in the following programs:
 - POCUS Hands-On Learning for GIM Faculty SIM/OSCE
 - GME PM&R PGY1-4 Ultrasound & Joint Injection Workshop SIM/OSCE
 - CSOM M3 Teaching Physical Exam Skills SIM
 - UME EMIG Ultrasound Work



Abdominal Palpation Examination Trainer

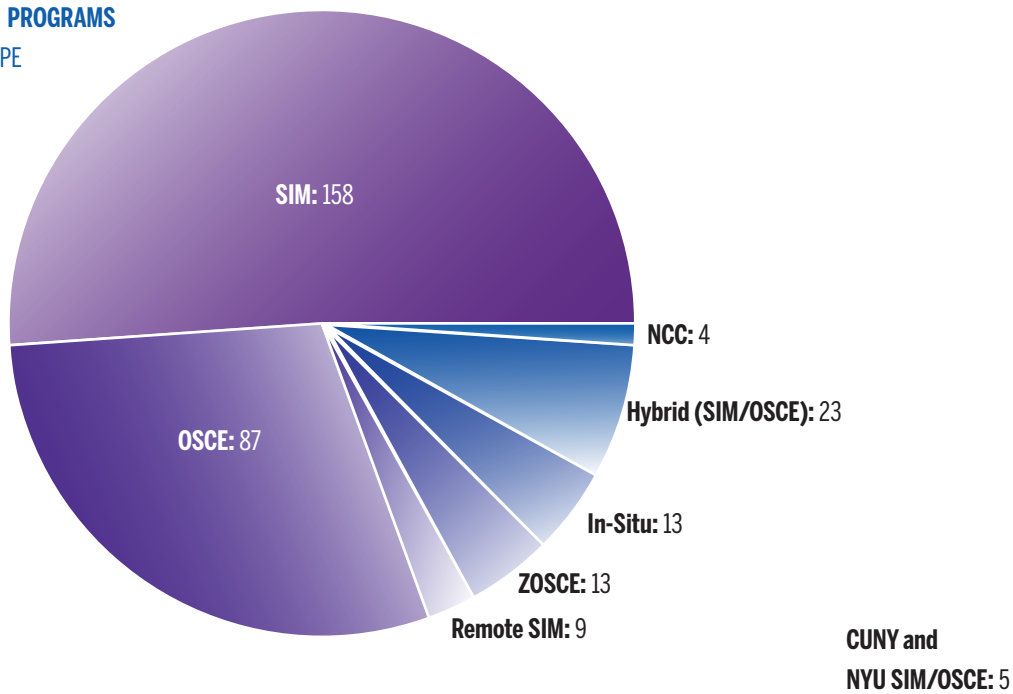


Musculoskeletal Knee Ultrasound Training Model

NYSIM UTILIZATION AND IMPACT

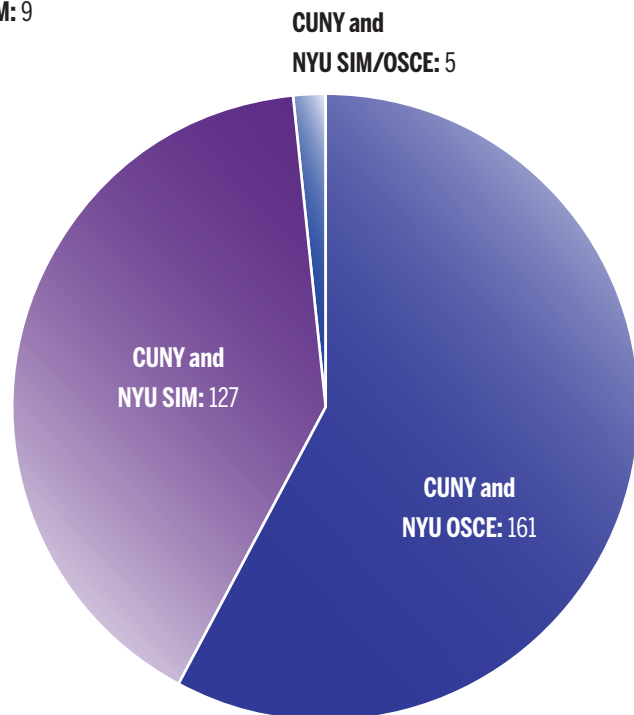
In the last fiscal year,
19,503 learners and faculty participated in simulation education activities
307 programs and
2,035 sessions took place totaling
5,980 hours of instruction

FY22 PROGRAMS
 BY TYPE



FY22 CUNY SCHOOL OF MEDICINE (CSOM) AND NYU GROSSMAN SCHOOL OF MEDICINE (NYUGSOM) MEDICAL STUDENT SESSIONS

CUNY School of Medicine and NYU Grossman School of Medicine conducted 161 OSCE, 127 simulation and 5 hybrid (SIM/OSCE) sessions for their medical students.



DATA KEY

Sessions: each instance of an education program is considered a session.

Program Type:

- SIM Programs: simulation programs using task trainers or manikins
- Remote SIM: simulation programs held virtually
- OSCE: programs using Standardized Participants (SP)
- ZOSCE: OSCE programs held virtually (Zoom-OSCE)
- Hybrid (SIM/OSCE): courses involving both SIM and OSCE components
- In-Situ: programs occurring in a clinical setting
- NCC: National Certification Courses, including the American Heart Association's BLS, ACLS, and PALS

Who are our Learners?

Our learners represent diverse health professions, including:

- Medical students
- Nursing students
- Physician assistants
- Physical therapists
- Residents
- Attending physicians
- Fellows
- Nurses
- Medical assistants
- Emt's and paramedics
- Nutritionists
- Social workers

Top 3 Content Taught for SIM Programs

1. Physical Examinations
2. Cardiac Emergencies
3. Pediatric Emergencies

Top 3 Content Taught for SP Programs

1. Communication
2. Patient Education and Counseling
3. Treatment Plan and Management

EDUCATION CONSULTS

Directors consulted on 78 different programs, meeting with faculty and leaders one or more times to ensure the success of the simulation education programs. They collaborated with faculty from across numerous CUNY and NYUGSOM programs and disciplines to design simulation activities and scenarios, program assessments, scholarship and research, and provided equipment demonstrations, and much, much more.



Continue education consultations to ensure high-quality simulation activities across disciplines



Assess educational and health outcomes through research and data analysis

TOURS

In FY22, we returned to in-person tours and conducted 13 tours. Our team members were thrilled to show NYSIM's state-of-the-art facility, and meet to share resources and best practices with simulation experts from our community, and all over the world.



Expand NYSIM accessibility for all learners

NYSIM PROGRAMS AT A GLANCE

SIMULATION (SIM) PROGRAM

NYSIM's Simulation (SIM) Program includes 27 high-fidelity manikins and over 200 task trainers. Manikin-based simulation activities provide learners with opportunities to practice communication skills, teamwork skills, technical skills, and clinical decision-making skills in a psychologically safe environment that represents various clinical settings. Programs are developed and supported by the simulation team, including the NYSIM Directors and Simulation Operations Associates (SOAs). Simulated clinical scenarios can be delivered on-site at NYSIM, in a healthcare setting, or through a remote platform.

Accomplishments:

- Supported 169 programs and 801 simulation sessions, a 13% increase in programs and an 11% increase in sessions.
- Supported many new programs, including:
 - Hunter College Nursing SIM
 - New York City College of Technology (NYCCT) Nursing Pulmonary Care of Patient SIM
 - Queensborough Community College (QCC) Nursing Pediatric Respiratory SIM
 - York College Occupational Therapy SIM
 - NYU Grossman School of Medicine Internal Medicine Residency Global Health Thoracentesis
 - NYU Grossman School of Medicine CME VA ECMO training for FITs (Fellows-In-Training) SIM
 - NYU Langone Health - Brooklyn OBGYN Maternal Cardiac Arrest Drill SIM In-situ
- Expanded our educational equipment portfolio with 1 simulator and 8 unique trainers to meet the evolving learning needs of our community, in collaboration with faculty educators.
- Standardized adult and pediatric code carts to include: realistic medications with labels, medications in vials, LifeFlow gun, and EpiPens.
- Streamlined intakes, and incorporated pre-screening emails, to expedite requests for recurring programs and reduce meetings for NYSIM staff and program faculty.
- Developed a VP (ventriculoperitoneal) shunt for the Pediatric Emergency Medicine In-situ using an ET (endotracheal) tube. The ET tube was inflated with air, placed under the SIM Baby's head skin, and then decompressed to simulate fluid drainage from the shunt.
- Designed a pediatric arterial line for a neonatal simulation program by adding an infant manikin arm to an adult arterial line trainer. NICU faculty highlighted the SIMs team ability to creatively problem solve and develop an innovative model modification at a national conference.
- Created moulages to represent various wounds. Also, used clay and watercolor paint to simulate blood, and enhance the realism of simulations.



Pediatric Arterial line with infant manikin arm connected to an adult arterial line trainer



Moulage created to enhance the realism of simulations



FACULTY TESTIMONIALS

"Thank you so much for your assistance with today's sim and skills. Your thinking outside of the box made the day so much better!"

– Mary Ellen Sheldon, Nursing Faculty, NYU Langone Health

"Our deepest gratitude goes to all NYSIM directors and staff for providing continuous support to our BMCC faculty and students when returning to the "new normal" in nursing clinical education, which required an increase in the amount and frequency of simulations for approximately 350 students per semester. We are proud to say that together with NYSIM we were able to establish a high-quality and sustainable simulation program for our nursing curriculum."

– Laura Penalo, PhD, RN, CNL, BMCC CUNY, Assistant Professor, Simulations Liaison



STANDARDIZED PARTICIPANT (SP) PROGRAM

NYSIM's Standardized Participant (SP) Program runs and supports Objective Structured Clinical Examinations (OSCEs) on-site at our center, remotely, and in a hybrid model. In the time-limited patient encounters with a standardized participant, rating forms are used with predetermined criteria to assess performance in a standardized fashion.

Variations of OSCEs are dependent upon educational goals and objectives of activities, and may include OSCE, group OSCE (GOSCE), OSTE (Teaching), and remote OSCEs (ZOSCEs). With over 300+ OSCE cases in NYSIM's library, our SPs portray a wide variety of cases and roles, including patients, family members, learners, faculty, and healthcare professionals in OSCEs and manikin-based SIM programs. SPs are trained in assessing and delivering effective feedback.

Accomplishments:

- NYSIM supported 133 Standardized Participant programs with a total of 386 sessions, an increase of 36% for SP programs and 56% sessions from FY21.
- NYSIM supported 190 sessions outside of the center, an increase of 10 over the previous year, that required SP-only support, including Unannounced Standardized Participant sessions.
- 133 Standardized Participants employed by NYSIM contributed 11,427 hours for all programs, an increase of 18% hours from FY21.
- NYSIM SP Educator trainings increased by 40%.
- Supported the development of more than 25 new cases/scenarios, including:
 - Anxiety Scenario for CUNY Queensborough College NU 202 Mental Health Nursing ZOSCE
 - Visually Impaired/Health Disparities scenario for CUNY Hunter-Cabrini Fellowship ZOSCE
 - Recognition of Impaired Resident scenario for the NYULH Graduate Medical Education Anesthesia Residency Board Prep SIM/OSCE
 - Verbal De-Escalation/bias scenario for the NYULH Graduate Medical Education Psychiatry Residency Agitation SIM/OSCE
 - Toddler with fussiness and poor appetite scenario for the NYU Grossman School of Medicine Pediatrics Clerkship OSCE
- Supported 29 new programs, including:
 - CUNY Hunter-Cabrini Social Work and Nursing Fellowship ZOSCE
 - (4) Recurring CUNY School of Medicine (CSOM) OSCEs for clerkship curriculum:
 1. Internal Medicine
 2. OBGYN
 3. Psychiatry
 4. Surgery
 - NYUGSOM Dental Faculty Feedback OSCE
 - NYUGSOM Neurology Residency Chief Resident ZOSCE
 - NYUGSOM ICI 2 (Inter-Clerkship Intensive) - Simulation on Care of the Acutely Decompensating Patient
- Recruited and onboarded 22 new Standardized Participants (SPs), for a total of 133, representing our diverse patient population:
 - 6 transgender and non-binary SPs
 - 4 Asian SPs, 7 Black or African/American SPs, 4 Hispanic/Latina SPs
 - Language proficiencies: 5 Spanish speakers, 2 Mandarin speakers, 2 French speakers, 1 SP who uses American Sign Language (ASL)



FACULTY TESTIMONIALS

"I just wanted to say thank you for helping us facilitate a perfect virtual OSCE for our students at QCC [Queensborough Community College]. This was the first time I did a virtual simulation experience and I have to say it met all of my expectations and learning objectives! The students provided us with such positive feedback! They stated it felt as if they were communicating with a "real" patient despite the virtual environment! [The SP] was amazing and truly skilled in his craft!"

– Nursing Professor, CUNY Queensborough Community College

"I just wanted to thank the amazing group of SPs for their particular talent and wisdom. I watched so many of the encounters and was really struck by their consistency across so many learners, realistic portrayal, and most of all their teaching skills during the feedback sessions. I took many notes during these sessions and was so impressed by the detailed observations and individualized feedback. I feel like I've learned so much from them. Many learners have remarked to me how talented the actors are and how helpful they found the faculty OSCE especially the feedback."

– Cen Zhang, Assistant Professor, Department of Neurology at NYU Grossman School of Medicine





NATIONAL CERTIFICATION COURSES

NYSIM's National Certification Courses (NCC) program offers American Heart Association's Advanced Cardiovascular Life Support (ACLS), Basic Life Support (BLS), Pediatric Advanced Life Support (PALS), and Heartsaver CPR/AED courses. Since 2019, the program is a registered training site in partnership with the NYU Long Island School of Medicine (LISOM) AHA Training Center, led by Don Wang.

LEARNER TESTIMONIAL

"As a night nurse it's always difficult to take a course after work. Yet if the instructor is energetic, kind, helpful and a true teacher it is so much easier to be engaged...The course was lively, informative, interactive and everyone that left there—whether 40 years of nursing experience as myself or a new graduate—learned very important information since the medical field is always changing. I would highly recommend this course, especially if you have to take it after a 12-hour busy night shift. I left more energized after the course than when I started the course."

– Patricia Feerick-Kossmann, Senior Nurse Clinician, NYU Langone Health



Accomplishments:

- Trained 4,865 learners
- Welcomed NYSIM's Associate Medical Director Dr. Joanne Agnant as a consultant to the NCC team
- Digitized our quality assurance observation form for ease of access and improved data reporting
- Successfully trained the new cohort of 388 house staff in collaboration with the NYUGSOM Graduate Medical Education Office (GME)

PROFESSIONAL DEVELOPMENT PROGRAM

7TH ANNUAL VIRTUAL HOT TOPICS IN SIMULATION EDUCATION SYMPOSIUM

The 7th Annual Virtual Hot Topics in Simulation Education Symposium was hosted on October 22, 2021. Participants from medical and simulation education communities attended the symposium, including administrators, physicians, registered nurses and speech language pathologists. This symposium focused on the latest innovations and best practices in simulation education, including diverse topics ranging from debriefing and psychological safety to podcasting for the simulation community.

100% of the participants rated the symposium as excellent, stating it was relevant to their practices with all learning objectives being met. A participant reflected on their personal experience at the symposium stating, *"I always love attending the NYSIM symposiums because the speaker lineups are fantastic and I am left with a new breath of curiosity and the hunger to learn more and better myself as a simulationist."*

Register Now!

7th Annual Hot Topics in Simulation Education

A New York City Simulation Virtual Symposium

Sponsored by the New York Simulation Center for the Health Science (NYSIM)

Date:
Friday, October 22, 2021

Time:
Virtual Symposium: 11:00am-4:45pm
Virtual Happy Hour: 4:45pm-5:45pm

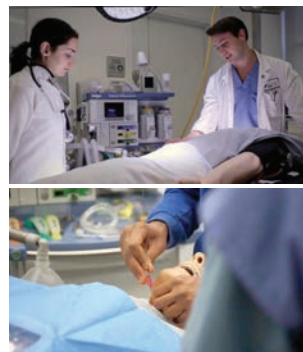
Location:
Via Zoom

Who should attend?
All educators in health professions who want to learn more about the latest innovations and best practices in simulation education.

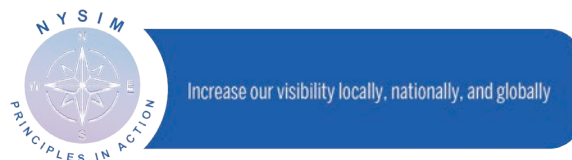
What does the day include?
Plenary sessions, breakout sessions.

Symposium Fee:
NYULH: Free
CUNY: Free with coupon code
Other: \$20

Visit Online to Register:
nysimcenter.org/symposium/hot-topics

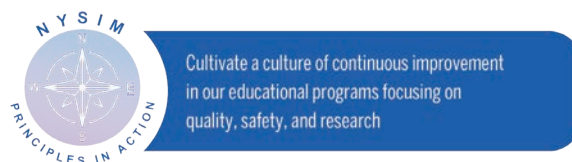


In total, three international presenters facilitated informative plenary sessions and six breakout sessions were offered. A total of 95 participants from CUNY, NYUGSOM, and external institutions attended the symposium, increasing NYSIM's visibility locally, nationally, and globally.



To learn more about Hot Topics, and view previous years' plenary sessions, please visit our website: <http://nysimcenter.org/symposium/hot-topics>

We are committed to excellence! Post-program surveys are given after professional development programs, including Hot Topics and the NYSIM Instructor Course. This feedback is used to help us improve our courses.



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Standardized Participant Educator

Willie Lombeida

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Per Diem Web Designer

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Matron

ACKNOWLEDGEMENTS

NYSIM would like to recognize and thank former employees that contributed to our success in 2021-2022:

Grace Ng, PhD, RN

Jeff Manko, MD

Alex Mack

John Kang

Austin Lange

Branden Ford





Dr. Sondra Zabar was honored with the Society for General Internal Medicine Career Achievement in Medical Education award at the SGIM Annual Conference in April 2022.

SCHOLARLY CONTRIBUTIONS

PUBLICATIONS

Wilhite JA, **Zabar S**, Gillespie C, Hauck K, Horlick M, Greene RE, Hanley K, Adams J. "I Don't Trust It": Use of a Routine OSCE to Identify Core Communication Skills Required for Counseling a Vaccine-Hesitant Patient. *J Gen Intern Med.* 2022 Jul;37(9):2330-2334: PMC9202969.

Eliasz KL, Nick MW, **Zabar S**, Buckvar-Keltz L, Ng GM, Riles TS, Kalet AL. Viewing Readiness-for-Residency through Binoculars: Mapping Competency-Based Assessments to the AAMC's 13 Core. Entrustable Professional Activities (EPAs). *Teach Learn Med.* 2022 Jun 6:1-6.

Fisher H, **Zabar S**, Chodosh J, Langford A, Trinh-Shevrin C, Sherman S, Altshuler L. A novel simulation-based approach to training for recruitment of older adults to clinical trials. *BMC Med Res Methodol.* 2022 Jun 28;22(1):180.

Gillespie C, Wilhite JA, Hanley K, Hardowar K, Altshuler L, Fisher H, Porter B, Wallach A, **Zabar S**. Addressing social determinants of health in primary care: a quasi-experimental study using unannounced standardized patients to evaluate the impact of audit/feedback on physicians' rates of identifying and responding to social needs. *BMJ Qual Saf.* 2022 May 27:bmjqs-2021-013904.

Sartori DJ, Lakdawala V, Levitt HB, Sherwin JA, Testa PA, **Zabar SR**. Standardizing Quality of Virtual Urgent Care: Using Standardized Patients in a Unique Experiential Onboarding Program. *MedEdPORTAL.* 2022 Apr 12;18:11244.

Janjigian M, Dembitzer A, Srisarajivakul-Klein C, Mednick A, Hardowar K, Cooke D, **Zabar S**, Sauthoff H. Design and comparison of a hybrid to a traditional in-person point-of-care ultrasound course. *Ultrasound J.* 2022 Mar 12;14(1):12. doi: 10.1186/s13089-022-00261-x. PMID: 35278145; PMCID: PMC8917361.

LaRocque JJ, Grossman S, Kurzweil AM, Lewis A, **Zabar S**, Balcer L, Galetta SL, Zhang C. Training in Neurology: Objective Structured Clinical Examination Case to Teach and Model Feedback Skills in Neurology Residency. *Neurology.* 2022 Apr 19;98(16):684-689.

ORAL AND WORKSHOP PRESENTATIONS

State, Regional and National

Dembitzer A, Lusk P, Hardowar K, Hauck K, Janjigian M, Mahowald C, Schaye V, Shapiro N, Schwartz C, **Zabar S**. Tackling challenges in the evaluation of faculty development programs: Strategies to assess teaching skills and program impact. Oral presentation at: SGIM 2022 Conference; April, 2022; Orlando, FL.

Zhang C, Lewis A, Pleninger P, Nelson A, Gurin L, **Zabar S**, Galetta S, Balcer L, Kurzweil A. Experiential learning of communication and professionalism for neurology faculty through virtual objective structured clinical examinations (OSCEs): Methodology and preliminary survey results. Oral presentation at: American Academy of Neurology (AAN) Conference; April, 2022; Seattle, WA.

Pradhan D, Stevenson E. Effect of Palliative Care Curriculum on Serious Illness Conversation Preparedness. Scholarly Podcast: Conversations on Medical Education from the American Thoracic Society. December, 2021. Accessed January 31, 2023. <https://scholarly.transistor.fm/episodes/effect-of-palliative-care-curriculum-on-serious-illness-conversation-preparedness>

Sagalowsky ST, **Agnant J**, Bailey B, Woodward H, Duncan E, Grad J, Kessler DK. Addressing Inequity and Structural Competency Through Simulation: A Transformative Learning Workshop. Workshop presented at: BASE Camp & Child Life of Greater New York (CLGNY); October, 2021; Virtual.

Agnant J, Gifford S, Evins J, Woodward H, Bailey B, Kessler DK, Sagalowsky ST. Debriefing Methodology as a Framework to Respond to Microaggressions. Workshop presented at: BASE Camp & Child Life of Greater New York (CLGNY); October, 2021; Virtual.

Pradhan D, Goffi A, Brotherston D, Jackson, R. Teaching Ultrasound at the Point of Care in Times of Social Distancing. Scholarly Podcast: Conversations on Medical Education from the American Thoracic Society. September, 2021. Accessed January 31, 2023. <https://scholarly.transistor.fm/episodes/teaching-ultrasound-at-the-point-of-care-in-times-of-social-distancing>

International

Ark T, Altshuler L, Gillespie C, Kalet A, Wilhite J, **Zabar S**. Understanding the development of communication skills over 4 years of medical schools: Does early assessment predict future skills? Oral presentation at: AMEE 2022 Conference; August, 2022; Lyon, France.

Duncan E, **Agnant J**, Napoli K, Mejia S, Landdeck P, Sagalowsky ST. Development of a Family Presence Facilitator Assessment Tool for Simulated Pediatric Resuscitations Using Modified Delphi Methodology. Oral presentation at: 13th Annual International Pediatric Simulation Symposia & Workshops; September, 2021; Virtual.

Agnant J, Gifford S, Evins, J, Woodward H, Bailey B, Kessler DO, Sagalowsky ST. Debriefing Methodology as a Framework to Respond to Microaggressions. Workshop presented at: 13th Annual International Pediatric Simulation Symposia & Workshops; September, 2021; Virtual.

POSTER PRESENTATIONS

Phillips Z, Fisher H, Wilhite J, Gillespie C, Altshuler L, Hanley K, Holmes I, Lee M, Wallach A, **Zabar S**. Can you hear and see me now? A telemedicine quality improvement project in a large, urban safety net health system. Poster presented at: AMEE 2022 Conference; August, 2022; Lyon, France.

Phillips Z, Altshuler L, Gillespie C, Hanley K, Wilhite J, Fisher H, Wallach A, Dapkins I, Lee M, Dembitzer A, Jay M, Mitsimoto J, Robertson V, **Zabar S**. Just-in-time education: Implementing a simulation-based telemedicine training and assessment program across our educational continuum and health system. Poster presented at: AMEE 2022 Conference; August, 2022; Lyon, France.

Israel H.P., Slade M, Burk R.E., Goffi A, Kanaan J.P., Lanspa M. J., **Pradhan D**, Sauthoff H, Weir I.D., Zaidi G, Pisani M.A., Liu R, Gielissen K, Chichra A. Development and Validation of an Assessment Tool for Fellow Competence in Critical Care Ultrasound based on Entrustable Professional Activities. Poster presented at: CHEST International Conference; July, 2022; Bologna, Italy.

Blatt B, Allen K, Drda V, Tame K, Greene R, **Manko J, Phillips D, Zabar S**. Diversity, Equity, and Inclusion in Simulation through Development of a Central Education Resource: OSCE Case Library and Diverse Standardized Participant Workforce. Poster presented at: NYU Langone Health's 2022 Department of Medicine Research Day; June, 2022; New York, NY.

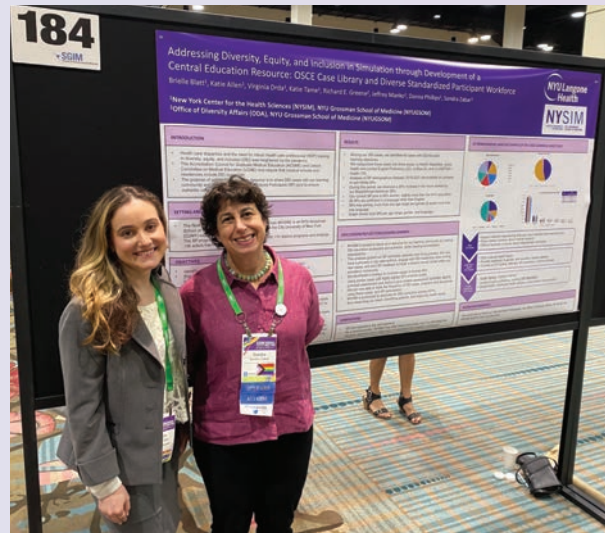
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Beltran C, Wilhite J, Gillespie C, Osman C, Poitevien P, Hanley K, Porter B, Hauck K, Greene R, Horlick M, Adams J, **Zabar S**. They asked to see a different doctor: Use of a routine OSCE to identify core skills required for supporting targets of discriminatory patients. Poster presented at: NYU Langone Health's 2022 Department of Medicine Research Day; June, 2022; New York, NY.

Phillips Z, Fisher H, Wilhite J, Robertson V, Mitsumoto J, Shahroudi J, Albert S, Li J, Paige J, Altshuler L, Gillespie C, Hanley K, **Zabar S**. Educating the Health System: Using unannounced standardized patients to understand the impact of new telemedicine visits. Poster presented at: NYU Langone Health's 2022 Department of Medicine Research Day; June, 2022; New York, NY.

Israel H, Burke B, Goffi A, Kanaan J, Lanspa M, **Pradhan D**, Sauthoff H, Wier I, Zaidi G, DeBernardo D, Pisani M, Liu R, Gielissen K, Chichra A. Defining Core Entrustable Professional Activities for Critical Care Ultrasound Competence Assessments of Critical Care Trainees. Poster presented at: ATS International Conference; May, 2022; San Francisco, CA.

Blatt B, Allen K, Drda V, Tame K, Greene R, **Manko J, Phillips D, Zabar S**. Addressing Diversity, Equity, and Inclusion in Simulation through Development of a Central Education Resource: OSCE Case Library and Diverse Standardized Participant Workforce. Poster presented at: SGIM 2022 Conference; April, 2022; Orlando, FL.



Brielle Blatt, MPA (left) and Sondra Zabar, MD (right) presenting the poster "Addressing Diversity, Equity, and Inclusion in Simulation through Development of a Central Education Resource: OSCE Case Library and Diverse Standardized Participant Workforce" at the Society for General Internal Medicine Conference, April 2022.

Phillips Z, Altshuler L, Gillespie C, Hanley K, Wilhite J, Fisher H, Wallach A, Dapkins I, Lee M, Dembitzer A, Jay M, Mitsimoto J, Robertson V, **Zabar S**. Just-in-time education: Implementing a simulation-based telemedicine training and assessment program across our educational continuum and health system. Poster presentation at: SGIM 2022 Conference; April, 2022; Orlando, FL.

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Ark T, **Zabar S**, Elias K, Wargo E, Kalet A. Using a simulated 360 experience to assess near-graduates readiness-for-internship: do all assessors tell the same story? Poster presented at SGIM 2022 Conference; April, 2022; Orlando, FL.

Fisher H, Wilhite J, Phillips Z, Robertson V, Mitsumoto J, Shahroudi J, Albert S, Li J, Paige J, Altshuler L, Gillespie C, Hanley K, **Zabar S**. Educating the Health System: Using unannounced standardized patients to understand the impact of new telemedicine visits at our Student Health Center. Poster presented at: SGIM 2022 Conference; April, 2022; Orlando, FL.

Wong L, Phillips Z, Altshuler L, Tenner C, Horlick M, Crotty K, Jay M, **Zabar S**, Dembitzer A. Optimizing Telemedicine: Using Standardized Patients to Assess and Train Clinicians in Remote-based Care. Poster presented at: SGIM 2022 Conference; April, 2022; Orlando, FL.

Zhang C, Kurzweil A, Pleninger P, Nelson A, Gurin L, **Zabar S**, Galetta S, Balcer L, Lewis A. Reported levels of comfort and experience with interprofessional and telehealth skills in a cohort of neurology faculty. Poster presented at: American Academy of Neurology (AAN) Conference; April 2022; Seattle, WA.

Ark T, **Zabar S**, Elias K, Wargo E, Kalet A. Using a simulated 360 experience to assess near-graduates readiness-for-internship: do all assessors tell the same story? Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

Buckvar-Keltz L, **Manko J**, Riles T, Roy S, Olson E, **Zabar S**. Assigning Online Educational Modules Prior to Orientation increases Interns' Level of Readiness for Internship. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

Fisher H, Wilhite J, Phillips Z, Robertson V, Mitsumoto J, Shahroudi J, Albert S, Li J, Paige J, Altshuler L, Gillespie C, Hanley K, **Zabar S**. Educating the Health System: Using unannounced standardized patients to understand the impact of new telemedicine visits. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

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Zhang C, Lewis A, **Kurzweil A**, Pleninger P, Nelson A, Gurin L, **Zabar S**, Galetta S, Balcer L. Neurology faculty's familiarity and level of comfort with interpersonal and telehealth skills: a needs assessment. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations and Scholarship Conference; November, 2021; New York, NY.

Desai PV, Howell H, McGrath M, Ramsey R, Lebowitz J, Trogen B, Cha C, **Zabar S**. Zoom OSCEs: Virtually the Same as the Real Thing? Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

Eliasz K, **Manko J**, Lugassy D, Fagan I, Olson E, **Mills E**, Choi J, Riles T, **Phillips D, Zabar S**. Establishing a Shared Understanding During the COVID-19 Pandemic: Incoming Interns Find an Experiential Patient Safety Orientation Effective Preparation for Day 1. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

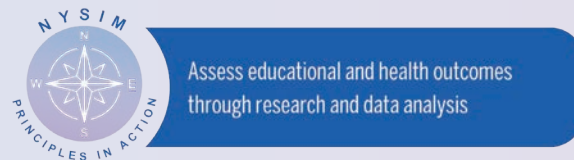
Wilhite J, **Zabar S**, Gillespie C, Hauck K, Horlick M, Altshuler L, Hanley K, Adams J. "I don't trust it": Use of routine OSCE to identify core communication skills required for swaying a vaccine hesitant patient. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

Lebowitz J, Desai P, McGrath M, **Zabar S**, Ramsey R, Howeel H. The Doctor Will Zoom You Now: An Experiential Telemedicine Curriculum for Pediatric Residents. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

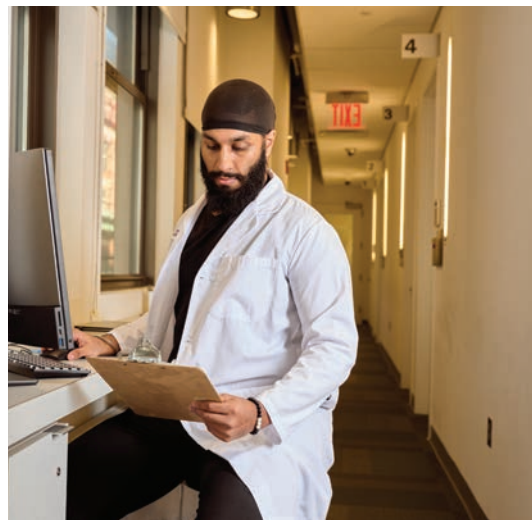
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Janjigian M, Dembitzer A, Srisarajivakul-Klein C, Mednick A, Hardowar K, Cooke D, **Zabar S**, Sauthoff H. Impact of COVID on POCUS Education – Comparing a Blended to a Traditional Program. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.

Eaton K, Hauck K, Levitt H, Testa P, **Zabar S**. Experiential Telemedicine Training to Improve Transitions of Care. Poster presented at: NYU Langone Health's 2021 Medical Education Innovations & Scholarship Conference; November, 2021; New York, NY.



All quotes were published with the expressed approval of the authors.





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