History and Mission
The mission of the Dr. Allan L. and Mary L. Graham Clinical Performance Center (Graham CPC) is to help educators in the health professions improve clinical performance and patient safety by using simulated clinical encounters for
- Instruction
- Assessment
- Quality Improvement
- Research

What We Do
Over 1,200 individual learners came to the Graham CPC in 2011, for over 24,000 learner-hours of educational activities with standardized patients, task trainers, mannequins and other simulations.

We serve medical students and residents, nursing and nurse practitioner students, pharmacy students and residents, hospital staff including nurses and respiratory therapists, physicians in practice, and mid-career professionals who are students in the UIC Masters of Health Professions Education and Masters in Patient Safety Leadership programs. Faculty from around the world attend short-term fellowship programs at the Graham CPC to learn how to implement simulation activities effectively in their own schools.

Graham CPC staff members serve as workshop instructors, plenary speakers and Special Project faculty for health professions students and residents at UIC. We disseminate knowledge gained through our activities through peer reviewed publications, workshops, paper presentations and posters at national and international conferences including the American Association of Medical Colleges, the International Meeting on Simulation in Healthcare, the International Association for Simulation and Clinical Learning, and the Association of Standardized Patient Educators.

Graham CPC simulation facilities include two eight-room “clinics” for standardized patient encounters, a mannequin simulation suite (ICU/ED simulation room, control room and debriefing room), two procedural skills labs, a clinical findings simulation lab, and three classrooms, all equipped with AV recording and playback capability, as well as office and administrative spaces.

Staff Transitions
In the summer of 2011 Jane Noles stepped down after 14 years as a standardized patient, SP coordinator and Assistant Director of the Graham CPC to join her family in Arizona. She will be much missed; our good wishes go with her. Robert Kiser will be taking on the position of Assistant Director of the GCPC.

The Graham CPC added several key staff members to support the increased demand for educational programs:
Kevin Heckman – Center Manager
Kevin joins the Graham CPC after a ten-year career in Chicago’s thriving theatre community, serving as the producing artistic director of Stage Left Theatre and the managing director of Next Theatre in Evanston. He brings valuable skills in not-for-profit management, financial tracking and reporting, development and marketing to his new position. He is also currently an MBA candidate at the Kellogg School of Management at Northwestern University.

Laura McKenzie – Standardized Patient Coordinator
Laura has been involved with the GCPC since 2005, beginning as a Standardized Patient before moving into the role of Standardized Patient Coordinator. Prior to joining the GCPC, Laura was a teaching artist for such arts advocacy groups as Urban Gateways, After School Matters and Barrel of Monkeys. She conducted theater and dramatic writing residencies with CPS students and also led professional development workshops. Laura is a graduate of Northwestern University and continues to write and perform.

Michelle Zahn – Technical Simulation Coordinator
Michelle worked as a paramedic for seven years graduating from the program at Malcolm X College and completing a field internship with the Chicago Fire Department. She has served as a senior paramedic at two Chicago-area private ambulance companies and also spent two years as the Learning & Development Coordinator for a pharmaceutical company. Michelle joined the GCPC in 2009 as a clinical skills instructor before moving to the Technical Simulation Coordinator position. She earned her Bachelor’s of Science in Biology from DePaul University, and is currently pursuing graduate certification as an allied health educator through the UIC College of Nursing.

New Financial Model
Uma Sriram of the University’s Financial Consulting Group responded to our request for review of the GCPC accounting system and developed an updated billing procedure for the GCPC.

New Equipment & Facilities
New Mannequin Simulation Suite: As demand for mannequin simulation continues to grow, we are in the process of refitting one of our classrooms to serve as a second mannequin simulation suite, complete with a mannequin, crash cart, critical care equipment, control room and AV debriefing capability. We expect the new suite to come online in September of 2011.

Lambda Walls, invented by the UIC Electronic Visualization Laboratory (EVL) of the College of Engineering, are tiled high-definition display walls that create a technologically enhanced working space or “cyber-commons” for students and faculty. In collaboration with EVL, two 10x6 foot Lambda walls were installed in Graham CPC classrooms this summer, promoting multimedia visualization, innovation and interaction in workshops and instructional programs.

Telemedicine Equipment including high-resolution cameras, monitors, and remote transmitting stethoscopes and otoscopes are now available in the GCPC patient exam rooms thanks to the OVCR telehealth initiative. The GCPC will serve as the training site for residents and faculty learning to work effectively in a telehealth environment.
Funded Research and Development

- **National Board of Medical Examiners Stemmler Fund** – Drs Rachel Yudkowsky, Georges Bordage and Janet Riddle are investigating the impact of an innovative checklist design approach on the validity of standardized patient-based performance exams. This study is based on the results of a previous Stemmler grant to Drs Yudkowsky and Bordage, also conducted at the GCPC.

- **VA Educational Grant** – Drs. Saul Weiner, Alan Schwarz, Rachel Yudkowsky, and Keith Muccino, with Sonal Patel, Frances Weaver, Gunjan Sharma, and Amy Binns-Calvey are assessing the efficacy of a curriculum teaching residents to probe for contextual issues that affect patients' plans of care, using standardized patients in simulated encounters at the GCPC and at the Loyola Clinical Skills Center.

- **Kyoto Kagaku Inc, Japan** – Drs Rachel Yudkowsky, Georges Bordage and Janet Riddle completed the development of a curriculum for the Physiko patient simulator to promote hypothesis-driven physical exam skills.

Recent Publications Based on Work Done in the Graham CPC


• Schwartz A, Weiner S, Harris I, Binns-Calvey A: An Educational Intervention for Contextualizing Patient Care and Medical Students’ Abilities to Probe for Contextual Issues in Simulated Patients. The Journal of the American Medical Association 2010; 304(11)

Recent Presentations Based on Work Done in the Graham CPC

• Tassone RF, Mucksavage J, C Ledonne C, Yudkowsky R: Development of a High Fidelity Simulation Module for Moderate Sedation. Poster presented at the Society for Education in Anesthesia, San Antonio, TX, June 2011


• Yudkowsky R, Galanter W, Valenta AL, Jackson R: Can Medical Students Effectively Retrieve Information from an Electronic Health Record? Research in Medical Education oral presentation at the Annual Meeting of the Association of American Medical Colleges, Washington DC, November 2010

• Stapleton GR, Yudkowsky R, Czart M: Talk to me Doctor! How your avatar can help you to improve your communication skills. Presentation at the 3rd Annual Emerging Technologies for Online Learning Symposium. San Jose, CA, July 2010


New Programs developed in 2010-2011

• Telehealth Communication Project: Telehealth is a rapidly expanding modality for interacting with patients and colleagues. We piloted the use of standardized patients to assess surgical residents’ communication skills in a telemedicine encounter, and plan to develop additional telehealth training and assessment programs in 2011-12, in collaboration with the UIC Telehealth initiative.

• Outpatient Center QA Project: Standardized patients visited the UICMC Outpatient Care Center incognito as “mystery shoppers” as part of the customer service quality assurance program. Their experiences resulted in the production of video vignettes and workshops for clinic directors and staff.
• **Central Line Insertion and Removal Workshops:** Central lines are a cause of preventable infections and morbidity in seriously ill hospital patients. These interprofessional workshops, developed in the GCPC by an interdisciplinary, interprofessional group of faculty and hospital staff, are providing standardized training and assessment of nurses and residents across specialties such as internal medicine, emergency medicine, surgery, anesthesia and pediatrics.

• **Moderate Sedation Workshop:** Mannequin scenarios and advanced skills training allow interprofessional teams of nurses, GI fellows and attending physicians to practice responding to emergencies that occur during moderate sedation for GI procedures. The scenarios were developed in the GCPC by a multidisciplinary team of physicians, nurses and patient safety experts, and will be modified for use by other specialties that use moderate sedation.

• **Pediatric Resident Procedural Skills Workshop and Mannequin Scenarios:** A collaborative effort of the GCPC, Department of Pediatrics, and MHPE student Beverley Robin resulted in the development of checklists, demonstration videos and an instructional workshop for pediatric procedural skills, and a series of mannequin scenarios that allow residents to practice responding to pediatric emergencies.

This has been a very busy and exciting year for the GCPC; we look forward to continuing to provide high quality simulation programs in support of instruction, assessment, patient safety and research.

**GCPC Activities Academic Year 2010-2011**

**UIC-COM M1 Essentials of Clinical Medicine: ECM1-2**

- History Taking Workshop
- History/Interview Final Examination

**UIC-COM M2 Essentials of Clinical Medicine: ECM3-4**

- Complete History Workshop
- Mental Status Workshop
- Musculoskeletal Workshop
- Abdominal Workshop
- Ophthalmic Workshop
- Cardiac Workshop
- Lung Workshop
- Male G/R Workshop
- Giving Bad News Workshop
- Domestic Violence Workshop
- Sex and Substance Abuse Workshop
- Female Pelvic and Breast Exam Workshop
- Focused History and Physical Exam Workshop
• Head to Toe Physical Examination Assessment with Teaching Session
• Professionalism in the Physician-Patient Relationship Workshop
• Final OSCE (Objective Structured Clinical Examination)

**UIC-COM M3:**

• Psychiatry Clerkship Examination
• Internal Medicine Clerkship Workshop/Assessment (Clinical Reasoning and Communication/Interpersonal Skills)
• OB/GYN Clerkship Workshop/Assessment (Pelvic/Breast Exam Workshop)
• Essentials of Clinical Practice and Professionalism: Procedural Skills Workshops
• Essentials of Clinical Practice and Professionalism: Simulation Programs

**UIC-COM M4:**

• Ophthalmology Clerkship
• Interdisciplinary Patient Safety Elective
• M4 Graduation Competency Exam – SP encounters
• M4 Graduation Competency Exam – Procedural Skills

**UIC-COM Residency Programs:**

• Communication and Interpersonal Skills Assessment
  o Department of Internal Medicine
  o Department of Surgery
  o Department of Pediatrics
  o Department of Obstetrics and Gynecology
• Mannequin-based simulation Programs (ACLS, Critical Care)
  o Department of Anesthesia
  o Department of Emergency Medicine
  o Department of Internal Medicine
• Procedural Skills Assessment
  o All interns and residents new to UIC
• Advanced Procedural Skills Training
  o Department of Anesthesia
  o Department of Emergency Medicine
  o Department of Family Medicine
• Central Line Insertion and Removal
  o Department of Surgery
  o Department of Internal Medicine
  o Department of Emergency Medicine

_UIC College of Nursing_
• Male G/R Workshops
• Nurse Practitioner Communication Workshop
• Forensic Nursing Communication Workshop
• Nursing Students’ Mannequin-based Simulation Programs
• Nurse Practitioner Ventilator Training with Mannequin
• Nurse Practitioner Advanced Procedural Skills

UIUC College of Pharmacy
• Small Group Workshop - “Taking a medication history”
• Patient Centered Care Workshop
• Mannequin-based simulation (ACLS)

UIUC Medical Center
• Full Disclosure Workshop – hospital staff practice disclosing adverse events to patients
• Moderate Sedation Workshop - nurses, fellows and attending physicians practice responding to emergencies during GI procedures
• Outpatient “mystery shoppers” – unannounced standardized patients visit the OCC.
• Mannequin-based simulation workshops (mock codes) in-situ in the Medical Center

Institute for Patient Safety Excellence (IPSE)
• Full Disclosure Workshops for ten area hospitals (grant funded)

Masters in Health Professions Education
• Sessions on the use of simulation-based activities to promote the instruction and assessment of clinical skills for the health professions
• One-week elective in Teaching and Testing with Standardized Patients

Masters in Patient Safety Leadership
• Full Disclosure Workshop
• Demonstration of simulation-based activities to promote patient safety

Faculty Development Programs at UIUC Health Science Campus
• Faculty workshop on debriefing mannequin-based simulation (cross-college, multiple departments)