QUINTESSENTIAL SIMULATION

Celebrating Five Years of Transforming Health Care Education

UW Health Clinical Simulation Program

Endorsed SEN program by the American Society of Anesthesiologists
Basic understanding comes from thinking,
but deeper understanding comes from experience—
putting understanding into action.”
– Satish Kaku

**QUINTESSENTIAL:**
A word used to describe pure example—the embodiment, epitome
and prototype of a quality or class; the most essential part. Of
medieval Latin etymology, the term combines quint and essentia—
the fifth essence.

For the UW Health Clinical Simulation Program, the essence of
simulation is present in everything we do—professional development,
team improvement, research and development—and is captured
within our five-part mission:

Create a comprehensive educational health care simulation program
with focus on the health care team as well as the individual practitioner:

1. Serving a variety of disciplines
2. Benefitting learners of all skill levels
3. Defining and measuring competencies
4. Enhancing patient and practitioner safety and improving outcomes
5. Advancing the science of simulation in health care

The number five also has special meaning in 2016 as we celebrate the
Clinical Simulation Program’s five-year anniversary. Through relentless
pursuit of our mission, simulation-based education has emerged as an
essential part of an integrated UW Health—touching learners, faculty,
staff and the patient care experience—through more than 1,400
events and more than 8,000 learner encounters annually. Every day,
professionals develop critical skills, teams improve, and innovations in
research and development create the health care of tomorrow. These
achievements exemplify simulation and more importantly, the powerful
impact that results.

We invite you to explore how the UW Health Clinical Simulation
Program is transforming health care education and what quintessential
simulation means to us.

Carla Pugh, MD, PhD
Clinical Director
UW Health
Clinical Simulation Program

Mary O’Connell, MHA
Program Manager
UW Health
Clinical Simulation Program
INTEGRATION AND ALIGNMENT
The UW Health Clinical Simulation Program is committed to alignment of professional development, team improvement and research and development activities with the UW Health Strategic Goals to provide a patient and family experience of compassion and excellent clinical quality.

Collaboration within and among disciplines to promote teamwork, enhance communication, build cooperation and grow skills for effective interaction in a complex environment of care

Improving people’s lives beyond the classroom—supporting The Wisconsin Idea—by encouraging new and innovative uses of simulation facilities and resources for advancement and discovery

SERVING A VARIETY OF DISCIPLINES: INTERPROFESSIONAL SIMULATION EXPERIENCES
Health care professionals are increasingly required to work as an interprofessional team to provide high-quality, safe and well-coordinated patient care. Interprofessional simulation experiences within the UW Health Clinical Simulation Program allow collaborative education to expand from team-based learning in a single discipline to team-based learning among multiple health care disciplines, consistent with real health care settings.

TEAM IMPROVEMENT
Simulation gives interprofessional learners the opportunity to engage in scenarios and then observe and reflect, or debrief, together to understand and optimize interprofessional team performance. Purposeful, shared training experiences result in a better understanding of the roles and skills of each discipline. In addition, demonstration of interprofessional communication and conflict resolution skills helps enhance team function.

RESEARCH AND DEVELOPMENT
This year, Advanced Burn Life Support, Otolaryngology, and Pediatric Progressive Site InSitu simulation events were conducted by recipients of grants from the UW Health Clinical Simulation Program, bringing interprofessional teams together around shared learning objectives.

CONTINUING PROFESSIONAL DEVELOPMENT
Interprofessional education supports training for a wide variety of roles, including physicians, nurses, medical assistants, paramedics, technicians, pharmacists, therapists and others within UW Health and the larger medical community.
BENEFITTING LEARNERS OF ALL SKILL LEVELS

Simulation-based education at the UW Health Clinical Simulation Program is an essential part of health science degree programs offered by the University of Wisconsin School of Medicine and Public Health. Students preparing for careers as physicians, physician assistants, physical therapists and other disciplines participate in guided hands-on education and gain experience performing clinical skills. In addition to student learners, opportunities for working professionals of all levels of skill and experience, from novice to expert, are offered.

UW Health entities—the University of Wisconsin Hospitals and Clinics, University of Wisconsin Medical Foundation, and University of Wisconsin School of Medicine and Public Health—work together to continually identify opportunities for curriculum development and expansion, to meet the rapidly evolving education and training needs of the health care workforce of tomorrow.

The UW Health Clinical Simulation Program also provides early exposure to health professions and careers to youth and community interest groups, including Girl and Boy Scout troops, Doris Duke surgery interns, UW Science Expeditions participants, READY (Responding to Emergencies and Disaster with Youth) Campers, and HOPE (Health Occupations and Professions Exploration) interns—nearly 1,000 individuals last year.

DEFINING AND MEASURING COMPETENCIES: LIFE SUPPORT

When seconds matter, health care professionals must be confident and competent in their abilities to save lives. The UW Health Clinical Simulation Program provides opportunities for individuals and teams of health care professionals to train and receive certification to provide care to patients facing life-threatening medical emergencies. Courses in Advanced Trauma Life Support (ATLS), Advanced Cardiac Life Support (ACLS), Basic Life Support (BLS) and Pediatric Advanced Life Support (PALS Plus) offer realistic, high-stakes training in a low-risk environment.

TEAM IMPROVEMENT

Life Support training within and among teams translates into improved skills, communication, high-performance team dynamics, critical thinking, decision-making and crisis management for effective interaction in a complex environment of care.

CONTINUING PROFESSIONAL DEVELOPMENT

Life Support certification is required for many health care professionals. Use of simulation provides reliable access to case-based scenarios in which learners receive coaching and immediate feedback to develop critical competencies, maintain skills and be prepared to respond in a medical emergency.

850+
Number of simulation hours dedicated to professional development annually

29,840+
Total number of learner encounters within the Clinical Simulation Program to date

As part of the Surgery Intern Preparation Course, Amy Liepert, MD, demonstrates how to use an anatomical airway model as retired faculty member Lou Benhardt, MD, and fourth-year medical students look on.

Students gather around SimBaby to feel for the bulging fontanelle as they familiarize themselves with the life-like features of the high-fidelity manikin during a Pediatric Advanced Life Support (PALS) course.
ENHANCING PATIENT AND PRACTITIONER SAFETY AND IMPROVING OUTCOMES

Simulation-based education is a powerful tool in achieving the highest quality health care in the safest environment—a cultural standard UW Health continues to strive for across the organization. Clinical and non-clinical participants engage in a variety of learning opportunities at the UW Health Clinical Simulation Program that are designed to promote quality and safety initiatives, including infection control, reduction of medical error and standardization of best practices.

Simulated scenarios also address the emotional aspects of patient care. Courses include curriculum designed to help learners become more comfortable in having difficult conversations with patients and families. These may include discussing a difficult diagnosis in “Best Case/Worse Case” and talking about organ donation with the family of a trauma victim. In addition to manikins and task trainers, simulations incorporate standardized patients—actors trained to realistically portray real patients—as well as real patient and family member volunteers who help learners better understand the experience of health and illness and promote patient- and family-centered care.

ADVANCING THE SCIENCE OF SIMULATION IN HEALTH CARE: AMERICAN COLLEGE OF SURGEONS ACCREDITED EDUCATION INSTITUTE

In June 2016, the UW Health Clinical Simulation Program received accreditation as a Comprehensive Accredited Education Institute (AEI) by the American College of Surgeons (ACS). An ACS-AEI addresses the educational needs of a broad spectrum of learners and advances the science of simulation-based education. The goals of the ACS-AEI program are to enhance surgical patient safety, support surgeons’ maintenance of certification requirements, address competencies that all surgeons and surgical residents need to achieve and demonstrate, and enhance access to contemporary surgical education.

To receive accreditation, the UW Health Clinical Simulation Program completed an onsite survey conducted by a team of experienced surgeon site reviewers and demonstrated compliance with 31 criteria in four standards:
1. Learners and Scope of Educational Programs
2. Curriculum Development, Delivery of Effective Education and Assessment
3. Administration, Management and Governance
4. Advancement of the Field

As an AEI, the UW Health Clinical Simulation Program provides comprehensive education for care providers, develops original curricula, offers a broad spectrum of educational programs, and is dedicated to the advancement of the field through research and scholarly activities.

During a two-day Advanced Trauma Life Support (ATLS) course, actors portray real-life trauma patients as providers from across Wisconsin and beyond learn from UW Health physicians.

Faculty members practice laparoscopic surgery in a simulated operating room.

The UW Health Simulation Program is 1 of 94 Accredited Education Institutes worldwide.

Number of manikins, virtual reality simulators and procedural and anatomical trainers available in the UW Health Clinical Simulation Program

79 and growing

JUNE 2015
The UW Health Clinical Simulation Program is accredited as a Comprehensive Accredited Education Institute by the American College of Surgeons.

MAY 2014
The second annual Simulation Days celebration is held. Walter Eppich, MD, MEd, Director of Faculty Development, Center for Education in Medicine, Assistant Professor of Pediatrics and Medical Education, Northwestern University Feinberg School of Medicine delivers the keynote address on “Debriefing in Simulation.”

MAY 2013
The Central Line Insertion hospital initiative is launched, providing standardized curriculum and simulation-based education on central line access to more than 100 clinicians annually.

MAY 2013
The inaugural Simulation Days celebration is held, featuring demonstrations of “Sim Wars” and central line insertion training simulators, a “Developing Effective Simulation” course and contest to name the program’s twin babies, two pediatric brothers and five adult manikins.

JUNE 2013
The third annual Simulation Days celebration is held, featuring roundtable discussion and keynote address by Pamela Andreatta, PhD, EdD, MFA, President of the Society of Simulation in Healthcare.

JUNE 2013
The inaugural Simulation Days celebration is held, featuring demonstrations of “Sim Wars” and central line insertion training simulators, a “Developing Effective Simulation” course and contest to name the program’s twin babies, two pediatric brothers and five adult manikins.

FEBRUARY 2013
The Department of Anesthesiology, University of Wisconsin School of Medicine and Public Health and the Clinical Simulation Program receive endorsement from the American Society of Anesthesiologists’ Simulation Education Network, allowing them to offer immersive simulation education courses for Maintenance of Certification in Anesthesiology.

MARCH 2012
Carla Pugh, MD, PhD, becomes Clinical Director of the UW Health Clinical Simulation Program.

NOVEMBER 2011
The UW Health Clinical Simulation Program celebrates its Grand Opening.

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JANUARY 2013
The program becomes the first in the nation to implement a centralized hands-on assessment experience for the Annual Review of Nurses and Certified Nursing Assistants.
Clinical Simulation Program Staff

2015–2016

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Advisory Board

2015–2016

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