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Gina Ruhland, RN
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Clinical Simulation Program 2016–2017 Annual Update

We are driven by a vision to offer a world-class simulation program that promotes experiential learning across health care disciplines to improve the quality and safety of patient care in Wisconsin and beyond.

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2016 – 2017

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Innovation

Embracing advances in health care education

The power of simulation to transform the way we educate and assess health care professionals is driven by our passionate simulationists. They recognize that innovation in this growing field positively impacts how health care teams respond and care for our patients. These individuals share new ways of improving work systems, team communication and advancements in simulation, which propel our remarkable patient- and family-centered health care system.

New applications of simulation-based education are being offered, such as our Laryngeal Dissection course—the first of its kind nationally to provide training for practicing otolaryngologists on new, emerging surgical techniques.

This year, we experienced outstanding growth in the area of interprofessional collaboration, demonstrated by the multiple InSitus team simulations offered. Looking to improve transitions in the care of a pediatric patient, our team simulated ED-to-ICU and unit-to-ICU transports throughout the year.

The collaboration of simulationists representing different professions—physicians, nurses, respiratory therapists and pharmacists—along with a variety of disciplines, including emergency medicine and pediatric critical care, will continue to support and advance the goal of providing exceptional patient care.

Collaboration

Leading the way to health care excellence

The value of simulation in patient care quality and safety is evidenced by the increase in program participants. Both the UW School of Medicine and Public Health and UW Health have experienced remarkable growth this year in simulation-based education, research and professional development.

We saw an increase of approximately 450 learners for Nursing Annual Review and grew the Central Line Insertion initiative to reach more than 100 residents and fellows. In FY17, we held the inaugural expanded Intern Preparatory Course, hosting the 2017 class of medical students in Year 4 (approximately 130 learners) over a two-week period. Learners were exposed to a variety of simulationists to prepare them for their upcoming year as resident interns.

Growth

Foundational roots in quality and safety

An interprofessional team of pediatric nurses, physicians, residents, respiratory therapists, child life specialists and intensivists responds to a deteriorating patient simulation on a pediatric unit. The team seeks to expose latent hazards during transitions in care, while allowing participants to learn in a realistic clinical environment. This particular simulation has gained recognition at the International Meeting for Simulation in Healthcare for the past two years.

Faculty development sessions prepare instructors on how to properly facilitate and debrief simulation scenarios for the Intern Preparatory Course. The expertise and guidance of our simulationist champions, who lead these sessions, resulted in a 50 percent increase in the number of faculty members integrating simulation into health care education.

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<table>
<thead>
<tr>
<th>Joint Trauma</th>
<th>Developed and tested more than</th>
<th>Oncology</th>
<th>Developed and tested more than</th>
<th>In Situ</th>
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<tbody>
<tr>
<td>13 occurrences</td>
<td>5 medical equipment prototype devices</td>
<td>2 occurrences</td>
<td>23 learner encounters</td>
<td>11 occurrences</td>
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<tr>
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Our simulationists continue to develop simulation-based education programs. This year, we developed and tested more than 5 medical equipment prototype devices.

Joint Trauma:
13 occurrences
59 learner encounters

Central Line Insertion:
14 occurrences
118 learner encounters

Nursing Annual Review:
18 combined adult and pediatric occurrences
1,640 learner encounters

An interprofessional team of pediatric nurses, physicians, respiratory therapists, child life specialists and intensivists responds to a deteriorating patient simulation on a pediatric unit. The team seeks to identify latent hazards during transitions in care, while allowing participants to work in a realistic clinical environment. This particular simulation has gained recognition at the International Meeting for Simulation in Healthcare for the past two years.
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Continuing Professional Development

Research and Development

Team Improvement

Patient and Family Experience

50% increase in instructors and educators

More than 7,000 learner encounters

More than 1,000 simulation events

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