



Project Firstline Academic Partner Accomplishments



Academic Partnerships

Effective infection control training and education must be grounded not only in the science on how germs spread but also reflect best practices and innovative approaches to teaching adult learners. Project Firstline's academic partnerships support cutting-edge applied science to inform infection control practices and the development of more effective, evidence-based platforms and approaches to infection control training and education. **Following are highlights of Project Firstline's academic collaborations.**



Emory University is working to identify common gaps in infection prevention and control practices (IPC) and improve assessment of healthcare workers' IPC competency by:

- Identifying infection control failure modes associated with common healthcare tasks.
- Evaluating frontline healthcare personnel behaviors associated with these tasks in a variety of hands-on simulations.

These insights will help to improve the responsiveness and quality of Project Firstline's training and allow healthcare workers and facilities to better understand the gaps of their own infection control practices.



Emory nurse, Jill Morgan, participates in hands-on simulation exercises to help identify common gaps in healthcare infection control.



The University of Nebraska Medical Center, in partnership with Nebraska Medicine and the University of Washington, is developing innovative approaches to address critical infection control needs for small and rural healthcare facilities by:

- Leveraging augmented reality technologies, to develop a virtual infection control consultation center to allow healthcare workers to receive remote "hands-on" consultation to address their infection control needs and gaps in knowledge.
- Establishing a network of rural, critical-access, and resource-challenged healthcare settings to evaluate innovative methods for preventing the spread of infectious diseases in these facilities.



New York City Health & Hospitals/Bellevue Medical Center and Massachusetts General Hospital are collaborating to understand acute care facilities' processes and strategies for implementing safe high-level isolation environments, as well as the barriers they face. Ultimately, this evaluation will inform a suite of resources to help different types of healthcare facilities establish better processes and infrastructure for high-level containment situations and alternative solutions during crisis/surge conditions.

Johns Hopkins Applied Physics Laboratory and the Armstrong Center for Health Care Human Factors at Johns Hopkins Medicine are developing new approaches and technologies to inform our understanding of IPC practices and the spread of respiratory pathogens in hospital settings through a number of activities, including:

- Examining environmental air and aerosol movement in Operating Rooms
- Evaluating aerosol generating procedures in healthcare
- Applying human factors engineering to address infection control risks





PROJECT **FIRST LINE**

CDC's National Training Collaborative
for Healthcare Infection Prevention & Control

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