

***In Situ* Simulation: Challenges and Results**

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Abstract

In situ simulation, simulation that is physically integrated into the clinical environment, provides a method to improve reliability and safety in high-risk areas. Deliberate practice and integration of teamwork skills in the time-pressured clinical environment provides great realism and is a rich resource to identify latent threats and system issues that can compromise patient safety. However, powerful cultural and logistic challenges impede implementation of this practice. Issues related to culture, performance anxiety, time pressures, and patient perceptions that can interfere with successful implementation of *in situ* simulation are explored. The experiences and lessons learned during implementation of three pilot *in situ* programs are reviewed. Qualitative data, including feedback from health care providers and patients on the value and concerns related to this practice, are presented. Lessons learned provide guidance that is intended to increase the future success and implementation of *in situ* simulation.

Introduction

Human patient simulators are currently utilized in a number of medical settings. Although available simulators do not reproduce the critically ill patient in his/her entirety, they do represent a giant leap forward from static mannequins. In addition, standardized scenarios that exert real-time pressure are easily developed. Anesthesia, critical care, and trauma teams have employed simulation training with a positive effect on procedural and cognitive skills in the simulated setting.¹⁻³ This intervention also combines the opportunity to practice technical and teamwork/behavioral skills.

The pediatric human patient simulator creates a realistic experience for the learner and increases the likelihood that the training experience accurately reflects the clinical environment. The realism of clinical simulations with human patient simulators makes it an extremely valuable tool in a curriculum based on experiential learning. It appears that human patient simulation is effective in developing the cognitive, procedural, communication, and teamwork skills that can improve patient safety.⁴⁻⁵ However, while performance is clearly enhanced in the simulated setting, there is little information available on the translation of these skills to the actual patient care environment.

In situ simulation has evolved as a particular form of simulation, distinct from simulation that is conducted in a simulation center. *In situ* simulation may be defined as, "Simulations that occur in the actual clinical environment and whose participants are on-duty clinical providers during their actual workday." An alternative definition would define *in situ* simulation as, "Simulation that

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Hung's Management of the Difficult and Failed Airway, Fourth Edition Orlando Hung, Michael F. Murphy, 2023-10-06 A full color case based guide to effectively managing airway difficulties updated to reflect the latest guidelines devices and techniques Written by the creators of the Difficult Airway Course Anesthesia™ and presented in full color this trusted resource covers the latest guidelines leading edge principles tools and procedures of airway assessment and management Multidisciplinary in scope the book encompasses the key areas of anesthesia hospitalists intensivists emergency medicine and paramedicine Updated and revised this fourth edition includes the most current review available of the many innovations that been introduced since publication of the previous edition This is accompanied by a thorough review of the pharmacology of airway management designed to help you understand how to achieve the desired effects on ventilation and muscle strength You ll find expert advice and strategies for treating patients in a range of settings from pre hospital care to the ER as well as proven techniques for special patient populations Hung s Management of the Difficult and Failed Airway Fourth Edition features Skill building case based approach that highlights that the right tools and techniques Comprehensive review of the difficult or failed airway Chapter ending questions that reinforce learning and allow you to assess your knowledge Dozens of airway management vignettes covering the intensive care unit operating room pediatric population emergency room and more New 15 additional chapters New Coverage on managing COVID 19 patients New Content focused on standard of care in a global crisis in critical care Full color illustrations

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