THE SIMULATIONIST GUIDE TO HIGH FIDELITY SIMULATION

Simulation Standards

INACSL Standards of Best Practice

View Standards

ASPE Standards of Best Practice

View Standards

SSH

Simulation Dictionary- This resource will provide insight into common language and appropriate spelling for common terms in simulation.

Download Dictionary

Modalities of Simulation

Fidelity \ fə-ˈde-lə-tē \ adj: The degree to which the simulation replicates the real event and/or workplace; this includes physical, psychological, and environmental elements

Highest Fidelity

Wearable Simulators

- ✓ Haptic Technology notifying wearer to respond.
- ✓ Technology connects via Bluetooth to software.
- ✓ Adds diversity into simulations by allowing populations to represent themselves.
- ✓ Combines the benefits of standardized patients and manikins.

High Fidelity

Standardized Patients

- ✓ Authentic communication and representation.
- ✓ Naturally incorporates psych or diversity objectives into simulations.
- ✓ Patient-centered feedback during debriefing.

Mid Fidelity

Manikins

- ✓ Multiple functions for care.
- ✓ Technology connects via Wi-Fi to software.
- ✓ Connects to AV system with programmed simulations.

Low Fidelity

Task Trainers

- ✓ Price

Low Fidelity

AR/VR

- ✓ Simulation can be done with many students and limited facilitators.

Fidelity

Fidelity has a common misconception in the simulation industry and was twisted by manikin-based companies by equating fidelity with the amount of technology in the modality. This is inaccurate by definition, as you see above. Fidelity is about the simulationist determining the modality that fits the objectives of their simulation.

AV SYSTEM CONSIDERATIONS

Budget for AV systems
Systems have a wide variety in pricing and capabilities. Review multiple companies for pricing.

Size and location of control room
Depending on the size of your program, consider how many people will be in the control room at one time. Sound is a big deal.

Wifi from sim lab to control room
You must ensure your manikin Wi-Fi will reach your control room and be compatible with your system.

Develop policy & procedure for recording simulation based on state guidelines.

READ MORE: LOW COST DIY AV SYSTEM

AR/VR TECHNOLOGY

A new wave of simulation is AR/VR technology. Simulationists are promised less time in the sim lab and saved costs of technology. Simply put, have an empty room and include headsets to do your simulations for you.

By definition, simulation is "extremely realistic and provide(s) a high level of interactivity and realism for the learner" if students are only touching controls and not physically touching the equipment and communicating with avatars instead of humans, it does not allow for extreme realism and leaves interactivity based on your own definition.

Ethics in Simulation

HEALTHCARE SIMULATION CODE OF ETHICS

I. Integrity

Healthcare Simulationists shall maintain the highest standards of integrity, including honesty, truthfulness, fairness, and judgment in all matters affecting their duties.

II. Transparency

Healthcare Simulationists shall perform all healthcare simulation activities in a manner that promotes transparency and clarity in the design, communication, and decision-making processes.

III. Mutual Respect

Healthcare Simulationists shall respect the rights, dignity, and worth of all. They shall practice empathy and compassion to support beneficence and non-maleficence towards all involved in simulation activities.
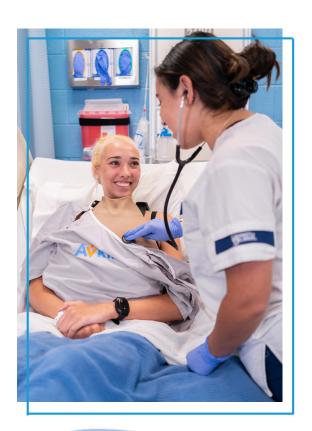
IV. Professionalism

Healthcare Simulationists shall conduct themselves in a manner that upholds the professional standards inherent in healthcare simulation.

V. Accountability

Healthcare Simulationists shall be accountable for their decisions and actions in fulfilling their duties and responsibilities.

VI. Results Orientation

Healthcare Simulationists shall serve to support activities that enhance the quality of the profession and healthcare systems. Outcomes are inclusive of all parts of the process of healthcare simulation and are not exclusive to a final product.

SSH
Society for Simulation in Healthcare™

RESOURCES

DOWNLOAD CODE OF ETHICS FROM SSH

DOWNLOAD CODE OF ETHICS FROM INACSL

Considerations When Starting

DIVERSITY, EQUITY, & INCLUSION

People of diverse backgrounds or orientations should not be limited to one or two token simulations but should be sprinkled into every simulation in the curriculum. The reality that students will engage with all kinds of patients from different walks of life is inevitable and a critical component of their education.

Simulationists must prioritize and celebrate the diversity that life has to offer. Standardized patients are the best way to allow people to represent their ethnicity and/ or culture in simulation and provide a dialog during the feedback process.

Pro Tip!
Having a person of color manikin but not representing the voice of the manikin should not be included as a diversity simulation. It is recommended to have someone there to represent the diverse population.

FEEDBACK- COLLECT ALL THE FEEDBACK

When starting in simulation, you need to collect as much deedback as you can get! Learn from every experience and keep documentation semester after semester. This will help with buy-in as you gain momentum, assist in validating growth funding, and help you with how to improve your simulation experiences. Pre and post-surveys are the most common ways simulationists collect data on student satisfaction.

Semester: _____   Date: _____

Directions: Please circle the most appropriate answer to each question. Please complete the last five questions by writing in your response.

I was well oriented to the purpose of the simulation.

Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

I was adequately oriented to the clinical simulation environment.

Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

The simulation helped me to apply my knowledge to practical application.

Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

Clinical simulation is a valuable tool that enables me to be a safe nurse.

Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

I was able to utilize my communication skills in the simulation.

Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

I felt comfortable in sharing my thoughts and feelings during the group debriefing session.

Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree

DOWNLOAD SIMULATION EVAL TOOL

The Dance of the Debrief

PREBRIEF OR PREBRIEFING

The time used by educators, researchers, facilitators, or staff to plan their roles before the simulation. Suggested activities in a prebriefing include an orientation to the equipment, environment, manikin, roles, time allotment, objectives, and patient situation. For example: Before starting the simulation session, there is a prebriefing where the equipment and its capabilities are reviewed, and learners are reminded of the equipment available to them in the room (INACSL, 2013).

SIMULATION

DEBRIEF OR DEBRIEFING

[Verb] To conduct a session after a simulation event where educators/instructors/facilitators and learners re-examine the simulation experience for the purpose of moving toward assimilation and accommodation of learning to future situations (Johnson-Russell & Bailey, 2010; National League for Nursing - Simulation Innovation Resource Center, 2013); debriefing should foster the development of clinical judgment and critical thinking skills (Johnson-Russell & Bailey, 2010).

ENDING

SELECT DEBREIFING APPROACH

- Self-guided post-event debriefing
- Facilitator-guided within event debriefing
- Facilitator-guide post-event debriefing

SELECT DEBRIEFING MODEL

WATCH VIDEO

ASSESSMENT OF PEERS

DASH Tool

Debriefing Overview

Resource Library

Healthy Simulation

The #1 place to read current topics happening in healthcare simulation as well as watch webinars.

Review Now

Society for Simulation in Healthcare

Review Now

INACSL HomeGrown Solutions

Review Now