Focus on Simulation 2020
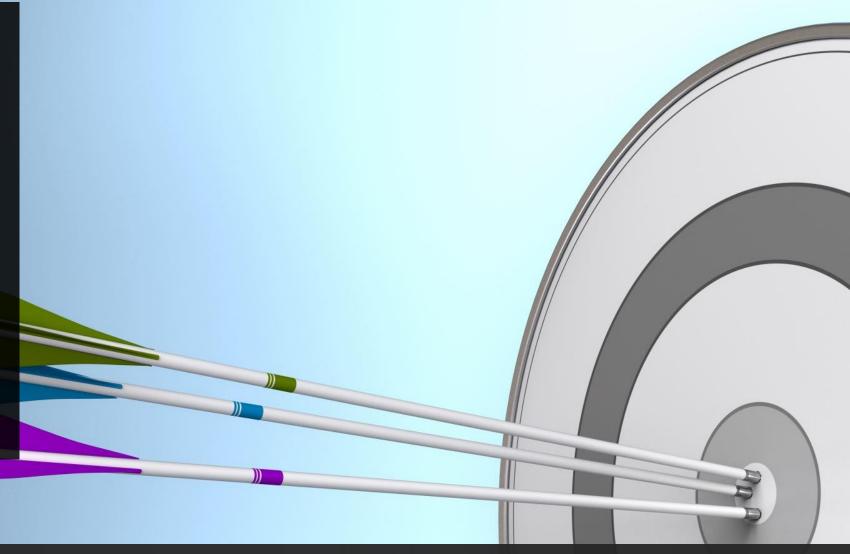
Improving Simulation Practice Through Reflective Practice

A PRIMER FOR FACULTY USE OF SIMULATION-BASED EDUCATION

Overview

Define healthcare simulation

Integrate simulation

Measure simulation effectiveness

Improve simulation effectiveness

Resources for improving simulation practice

Defining healthcare simulation

How would you define healthcare simulation?

Is it a role-play activity? A structured scenario using a manikin? What makes a simulation good? What makes a simulation effective? What does healthcare simulation achieve?

Your answer_____

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Healthcare simulation

IS A TECHNIQUE THAT CREATES A SITUATION OR ENVIRONMENT TO ALLOW PERSONS TO EXPERIENCE A REPRESENTATION OF A REAL HEALTHCARE EVENT FOR THE PURPOSE OF PRACTICE, LEARNING, EVALUATION, TESTING, OR TO GAIN UNDERSTANDING OF SYSTEMS OR HUMAN ACTIONS (SSH).

Integrate simulation

How much time does simulation take? What content is best-suited for simulation? What topics have priority for your students to experientially learn? If you had all the time in the world, what simulation would you design first? Why? If you could have only one crucial objective, what would it be?

Your answer

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Integrate simulation

STARTING WITH CURRICULUM OBJECTIVES FIRST, MOVE CLOSER TO THE POINT OF ENTRY/COURSE LEVEL. CREATE EXPERIENTIAL OBJECTIVES THAT ALIGN WITH COURSE AND CURRICULA OBJECTIVES. DEVELOP AN IMPLEMENTATION PLAN THAT INCLUDES COLLABORATION WITH CONTENT, INSTRUCTIONAL DESIGN AND RESOURCE EXPERTS. CREATE OR USE AN EXISTING TOOL TO EVALUATE SIMULATION OUTCOMES. REPEAT.

Measure simulation effectiveness

What simulation effects have you noticed? How is simulation designed to succeed? What assessments are necessary for determining simulation effectiveness?

Your answer

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Measure simulation effectiveness

STARTING AT THE LEVEL OF LEARNER (NOVICE TO EXPERT) DETERMINE PERFORMANCE OR THEMATIC ASSESSMENT CHECKS. CREATE A SCHEMATIC OF EXPECTED PERFORMANCE, BEHAVIORS, AND ATTITUDES AND DECIDE ON A SPECIFIC REMEDIATION PLAN FOR UNDERPERFORMING LEARNERS. USE ESTABLISHED TOOLS TO DETERMINE LEVEL OF MASTERY.

Improve simulation effectiveness

How is simulation effectiveness assessed? What assessment areas are learner-driven and what assessment areas are facilitator driven? How do organizational systems impact simulation effectiveness?

Your answer

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Improve simulation effectiveness

DETERMINING OUTCOMES RELIES ON SEVERAL MEASURES OF EFFECTIVENESS INCLUDING LEARNERS, FACILITATORS AND SYSTEMS. EFFECTIVENESS MEASURES (INSTRUMENTS) REPORTING STRONG RELIABILITY SCORES (CRONBACH'S ALPHA) MAY ASSIST FACULTY IN DETERMINING STUDENT PERFORMANCE AND FACILITATOR COMPETENCY IN SIMULATION-BASED EDUCATION.
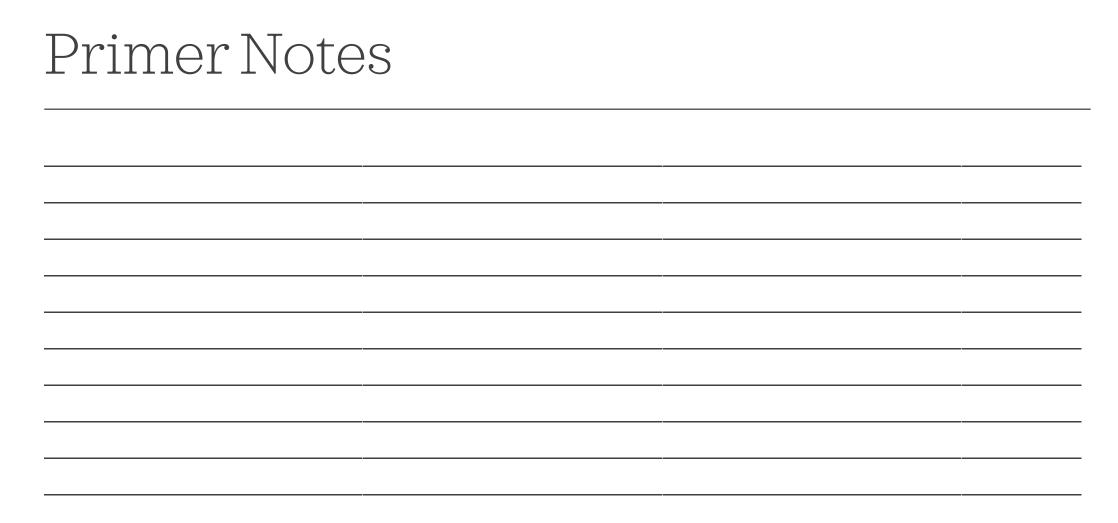
Resources for improving simulation practice

https://www.inacsl.org/resources/repository-of-instruments/

https://sites.google.com/view/evaluatinghealthcaresimulation/home

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4768888/pdf/jmdh-9-069.pdf

The more reflective you are,
the more effective you are. *Hall and Simoral*

Primer Notes

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For more information about simulation-based education see http://www.ric.edu/simlab/Pages/default.aspx