Presentation ID: 56573

Presentation Title: Innovations in Simulation Event Participant Tracking: Gathering Metrics In The Digital Age

Content Category: Technical Operations

Delivery Format: Hot Topic Session (15 minutes)

Overview:

Objective 1: Describe the need for advanced simulation participant metric tracking to facilitate accurate and automatic user data collection

Objective 2: Compare this solution to other low fidelity participant tracking options for accuracy, ease-of-use, and staff efficiency

Objective 3: Demonstrate and discuss how to develop and implement a fully-functional, home-grown simulation participant metric tracking system

Presenters:
Ronald Streetman BA, EMT-B, CHSOS; University of Michigan - Flint
Carman Turkelson DNP, MSN, RN, CCRN, CHSE; University of Michigan - Flint & Beaumont Health System
Presentation ID: 56585

Presentation Title: The Essentials of Debriefing

Content Category: Simulation Instructional Design

Delivery Format: Panel Presentation (60 minutes)

Overview: This panel focuses on a comprehensive overview of the essential elements of debriefing, to include prebriefing. These elements can be used for an immersive or procedural simulation and can be applied to simulation in a center or in situ. Audience members will be invited to share perspectives on debriefing and to think about the ways in which an effective prebriefing contributes to a meaningful learning conversation in the debriefing.

Objective 1: List the seven essential elements of debriefing

Objective 2: Describe the components of an effective prebriefing, and outline how an effective prebriefing contributes to a successful debriefing

Objective 3: Explain how the structure of a debriefing differs depending on the type of simulation

Presenters:
Dawn Taylor Peterson PhD; University of Alabama at Birmingham
Shelby May; UAB Hospital
Alex Morton; University of Alabama at Birmingham
Overview: A formalized mock code program was developed at our facility for frontline staff who are the initial responders in a code. The program was developed based on evidence found in the literature with the intent of improving response times in initiating life saving BLS. Knowledge deficits are addressed during debriefing and additional training completed immediately. Communication and teamwork are highlighted and practiced in the debriefing.

Objective 1: Describe the importance of a robust mock code program

Objective 2: Identify three outcomes that could be measured by a mock code program

Objective 3: Participants will describe solutions to two barriers to executing a robust mock code program

Presenters:
Julie Lee; Dayton VAMC
Presentation ID: 56656

Presentation Title: Troubleshoot This! Effective Troubleshooting Methods for Simulation Operators

Content Category: Technical Operations

Delivery Format: Panel Presentation (60 minutes)

Overview: Simulation operators come from a variety of professional backgrounds, of which, may not provide troubleshooting training. Effective troubleshooting of simulation equipment can help save simulations when technology fails. This session offers thought process models to enhance decision making skills for simulation operators while troubleshooting equipment.

Objective 1: Describe hardware, software and user error issues of simulation technology

Objective 2: Identify quick fixes for a simulation technology issue by the end of this session

Objective 3: Describe the use of a general troubleshooting methodology models by the end of this session

Presenters: Jonathan Muddle; Stanford University
Presentation ID: 56679

Presentation Title: Anatomy and Interventions for the Simulation Operations Specialist (SOS)

Content Category: Technical Operations

Delivery Format: Hands-On Workshop (90 minutes)

Overview: In this course, you will learn basic head, chest, and abdominal anatomy as it relates to manikin anatomy (in comparison to human anatomy). You'll also learn what interventions can be performed in those areas on manikins.

Objective 1: Use appropriate medical terminology in reference to human anatomy

Objective 2: Compare human anatomy to manikin anatomy

Objective 3: Identify and perform interventions that can be done on manikins

Presenters:
Jamie Hamilton; University of North Dakota School of Medicine & Health Sciences
Tim Shea, CHSOS; University of North Dakota School of Medicine & Health Sciences
Presentation ID: 56680

Presentation Title: Dear Simulation Operations Specialist (SOS), You Saved My Life: How to Improve Safety and Efficiency in Your Insitu Simulations

Content Category: Technical Operations

Delivery Format: Panel Session - 40 minute Presentation, 20 minute Discussion

Overview: This program will discuss medication dangers and other risks associated with insitu simulations. In addition this course will establish the processes that can be utilized to mitigate these hazards by incorporating practices derived from EMS, the fire service, and other entities. Finally this course will illustrate our center’s blueprint for streamlining insitu prep and performance through the use of various tools.

Objective 1: Discuss the inherent dangers associated with insitu simulations, particularly with medications

Objective 2: Identify three methods simulation operations specialists utilize to mitigate these hazards to safeguard learners and patients

Objective 3: Describe how simulation operations specialists implement a more efficient strategy to prepare for and execute an insitu simulation

Presenters:
Chris Egan; University of Florida
Ceri Borde; University of Florida
Presentation ID: 56687

Presentation Title: Making Low Cost Suction Task Trainers

Content Category: Innovation  Technology

Delivery Format: Hands-on Workshop (60 minutes)

Overview: This presentation will introduce educators to how to make low-cost tips and tricks for making suction task trainers, for general suctioning, massive vomiting and tracheal suctioning. Repurpose spare parts, find new ones, or make the components of these trainers yourself. Many of these devices can be made for $5 or less, yet are high quality and very realistic.

Objective 1: List low-cost parts that can be used to create do-it-yourself simulation training tools

Objective 2: Describe one technique that can be used to create a low-cost task training device

Objective 3: Identify the specific low-cost task trainers that could be developed at learner’s simulation center

Presenters:
Tim Shea, CHSOS; University of North Dakota School of Medicine & Health Sciences
Presentation ID: 56711

Presentation Title: Hi-Fi Isn’t Always Right! Exploring Simulation Modalities.

Content Category: Simulation Instructional Design

Delivery Format: Hands-On Workshop (60 minutes)

Overview: Many educators think they cannot perform simulation without a high-fidelity manikin, but Hi-Fi isn’t always the right simulation modality! Simulation also includes task trainers, simulated or standardized participants, computer-based scenarios, virtual reality, and hybrid or multi-modal methods. This presentation will describe various simulation modalities, discuss how to select the appropriate modality for your needs, and describe examples.

Objective 1: Understand the difference between high quality simulation and high-fidelity simulation

Objective 2: Compare and contrast simulation modalities

Objective 3: Select the appropriate simulation modality based upon learning objectives, needs, and available resources

Presenters:
Christie Singbusch; Baylor University
Beverly Price; Baylor University
Presentation ID: 56747

Presentation Title: Technology Team at the Table: A Template for Standardized Immersive Simulation Planning

Content Category: Simulation Instructional Design

Delivery Format: Panel Presentation (60 minutes)

Overview: Whether delivering a certain immersive simulation several times a week or once a year, standardization can be difficult. ZIEL has adopted and developed a planning template that helps to standardize immersive simulation delivery. This panel will represent perspectives of a Sim Technology Specialist, Sim Ops Technologist, and Sim Ops Manager in their experiences with the template in delivering consistent, quality simulations time and again.

Objective 1: Describe the Immersive Simulation Planning Template and illustrate its benefits

Objective 2: Demonstrate examples of areas within the template that are key in standardizing simulation delivery

Objective 3: Analyze the importance of the Technical Operations Team’s role in development of the template prior to simulation delivery, including: identifying appropriate manikins and monitors, moulage, consumables, simulated medications, equipment, etc.

Presenters:
Sarah Rucker; Zamierowski Institute for Experiential Learning
Colton Crook; Zamierowski Institute for Experiential Learning
Joseph Waterson; Zamierowski Institute for Experiential Learning
Presentation ID: 56751

Presentation Title: Designing Functional 3D Printed Objects For Simulation

Content Category: Innovation Technology

Delivery Format: Hot Topic Session (15 minutes)

Overview: 3D printing is a highly useful resource in simulation, as it allows for the recreation of existing objects that cannot easily be obtained, and custom objects for specific purposes. This hot topic presentation will cover some of the 3D printed items produced at ZIEL while analyzing the process of creation and demonstrating the objects' functionality.

Objective 1: Analyze the benefits that a 3D printer can provide for a simulation program

Objective 2: Examine the process of designing, prototyping, and creating 3D printed objects

Objective 3: Demonstrate the functionality of the 3D printed items and how they are used in simulation

Presenters:
Colton Crook; Zamierowski Institute for Experiential Learning
Presentation Title: “Oh Baby”: How to Create Multiple Peri-Mortem C-section Models on a Shoestring Budget

Content Category: Innovation Technology

Delivery Format: Hot Topic Session (15 minutes)

Overview: Emergency Medicine requested development of a hands-on Peri-Mortem Caesarean-Section Simulation model for grand rounds for 36 residents utilizing 1:6 ratio of models/residents repeated 6 times. Simulationist challenge was how this simulation could be repeated multiple times without delay or damage to equipment and still be realistic for inexperienced providers?

Objective 1: Identify Simulation Operations Specialist need to develop a peri-mortem c-section simulation due to extremely low volume population with high fetal mortality rate dependent upon infant delivery less than 5 minutes after maternal cardiac arrest.

Objective 2: Discuss how to construct a peri-mortem c-section simulation model including a written list of supplies with a step by step demonstration of how to assemble the model.

Objective 3: Explain the challenges of supervising, coaching and evaluating 6 simulated peri-mortem c-section performances occurring simultaneously and how to rapidly turn-over models for the next practice group within minutes.

Presenters:
Kathleen McCarthy RN,AD, BSN, MAED/AEDL, CCRN-K, CHSE;
**Presentation ID:** 56762

**Presentation Title:** On the Move: Implementing Mobile Cart Simulations

**Content Category:** Innovation  Technology

**Delivery Format:** Hot Topic Session (15 minutes)

**Overview:** This session is focused on systems integration using mobile cart simulation. This can be an effective and reproducible method for meeting institutional priorities with high learner volumes. We focus on needs assessment, development, and benefits of creating mobile simulations. Key strategies such as timeline planning, equipment and supply identification, setup standardization, and loan process development will be reviewed.

**Objective 1:** Define mobile cart simulation

**Objective 2:** List benefits of adapting current simulation practices into mobilized format

**Objective 3:** Recognize opportunities to develop mobile cart simulations

**Presenters:**
Alex Morton; University of Alabama at Birmingham  
Shelby May; UAB Hospital
**Presentation ID:** 56802

**Presentation Title:** The Great Escape!

**Content Category:** Simulation Instructional Design

**Delivery Format:** Panel Presentation (60 minutes)

**Overview:** This course will describe the aspects of creating an escape room for nursing residents to perform clinical practices. This course will identify how SOS created an escape room setting simulating an approaching category five hurricane. This program will discuss the implementation of nurse sensitive indicators and sepsis bundle within an escape room format. Finally, this course will discuss the use of AV and high fidelity simulators.

**Objective 1:** Discuss two clinical objectives for nursing residents within an escape room

**Objective 2:** Identify the AV and simulation equipment needs in order to implement an escape room

**Objective 3:** Describe the process of creating and facilitating a medical simulation based escape room

**Presenters:**
Ceri Borde; University of Florida
Michael DeLena; University of Florida
Chris Egan; University of Florida
Savanna Mahn; University of Florida
Presentation ID: 56810

Presentation Title: Summative Simulation - How to Implement Scoring and Grading Using SimDesigner Software

Content Category: Simulation Instructional Design

Delivery Format: Hands-on Workshop (60 minutes)

Overview: Summative Simulation - How to Implement Scoring and Grading Using SimDesigner Software

Summative simulated based assessments are intended to objectively determine students' competence in practice. This workshop will teach you what critical steps need to be followed to program and design simulations for the summative assessment using the Laerdal SimDesigner software, ensuring the validity of the assessment and the reliability of the grading.

Objective 1: Determine when a summative evaluation is necessary in the simulation. Participants will determine if the outcome of a summative evaluation is an assigned grade, promotion, certification, or demonstration of achievement of objectives or competency.

Objective 2: Construct a simulation scenario that scores learner performance. Participants will create/modify a scenario that is standardized in format and in scoring methods, and appropriate in its level of fidelity to achieve participant outcomes.

Objective 3: Apply grades to an event within the programmed scenario.

Presenters:
Rami Leventhal; Northern Kentucky University
Presentation ID: 56815

Presentation Title: Simulation Planning Process: a Path to Successful Facilitation

Content Category: Technical Operations

Delivery Format: Hands-on Workshop (60 minutes)

Overview: Simulation staff in hospital-based centers, encounter various simulation users with a variety of simulation based knowledge and experiences. This course will focus on how a list of standard pre-planning questions impact various levels of facilitation styles during simulation events. The content is geared toward a Simulation Operation Specialist and/or Simulation Technologist with some knowledge of simulation based terminology and experience.

Objective 1: The participants will describe how a standard planning meeting tool impacts successful training outcomes

Objective 2: Explore opportunities for Simulation Operation Specialists/Simulation Technologists to be flexible based on the various facilitation styles

Objective 3: Experiment with the shared tool in small groups using various sample simulation requests for training

Presenters:
Michelle Feliciano M.Ed., CHSE, CHSE-A; Cleveland Clinic
Nichole Kelsey, MSN, RN, CHSE; Cleveland Clinic
Presentation ID: 56817

Presentation Title: Utilizing a Checklist to Help Guide a Course Debrief Following a Simulation Activity

Content Category: Professional Development

Delivery Format: Hot Topic Session (15 minutes)

Overview: Facilitating a course debrief amongst the simulation center staff and the instructors following a simulation activity is an important way to gather feedback. There are specific items for both the Simulation Operation Specialists and the instructors to reflect on. This session will share the course debrief document that is currently used to elicit feedback, in person or via email, and how the document is stored and utilized for future use.

Objective 1: Discover an effective tool to help guide a course debrief following a simulation activity

Objective 2: Dissect the items listed in the course debrief document for both the Simulation Operation Specialists and the instructors

Objective 3: Devise a plan of how and when to implement the course debrief document into their current process

Presenters:
Michelle Feliciano M.Ed., CHSE, CHSE-A
Overview: Healthcare is a complex, interconnected system with numerous points of intersection between staff, patients, departments and service lines across the facility. Simulation, as a systems tool, can play a key role in the investigation and mitigation of medical errors in a root cause analysis and prospectively in a healthcare failure modes effect analysis.

Objective 1: Identify processes or procedures that are amenable to evaluation through the use of simulation

Objective 2: Identify processes or procedures that are amenable to evaluation through the use of simulation

Objective 3: Discuss and describe how simulation can be integrated in to a quality and patient safety initiative

Presenters:
Mary Ellen Elias MSN; VA Pittsburgh Healthcare System