


Development of a Virtual Opioid Overdose Simulation When On-Campus Activities are Limited

SIMULATION: BRINGING LEARNING TO LIFE

#IMSH2021

WELCOME

Carol A. Motyka




Carol Motyka is the Campus Dean and a Clinical Associate Professor at the University of Florida College of Pharmacy in the Department of Pharmacotherapy and Translational Research. Dr. Motyka's educational interests include interprofessional education, teamwork training, and substance use disorders.

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Eric F. Egelund




Eric Egelund is a Clinical Assistant Professor at the University of Florida College of Pharmacy in the Department of Pharmacotherapy and Translational Research. In addition to interprofessional simulations, Dr. Egelund's research interest includes infectious disease pharmacokinetics. He also works part time at Walgreens.

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Jane Gannon



Jane Gannon
Dr Jane Gannon is the Assistant Dean of Simulation-Based Learning at the University of Florida College of Nursing. She received her BN from Dalhousie University in Nova Scotia, her MSN in Nurse-Midwifery from the University of Miami, and DNP from Rush University with a focus on leadership and the business of health care. She currently teaches in the BSN and DNP programs at UF, and is the track coordinator for the RN to BSN program.

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- Core Members
 - Carol Motyka, PharmD,
 - Eric Egelund, PhD, PharmD
 - Jane Gannon, DNP, CNM, CHSE
 - Frank Genuardi, MD, MPH
- Design & Implementation
 - Amy Blue, PhD
 - Karina Kolb, EdM
 - Elliott Tordoff, MSC, PGCE
- Implementation
 - Lisa Domenico, PhD
 - Patrick Nobles, DNP
 - Karen Whalen, PharmD, BCACP



Due to the Covid-19 pandemic yearly simulations involving the Colleges of Medicine, Nursing and Pharmacy, in-person simulations were required to be virtual

We created a virtual simulation from a pre-existing simulation

Required close collaboration with all colleges and information technology department

Critical Behaviors



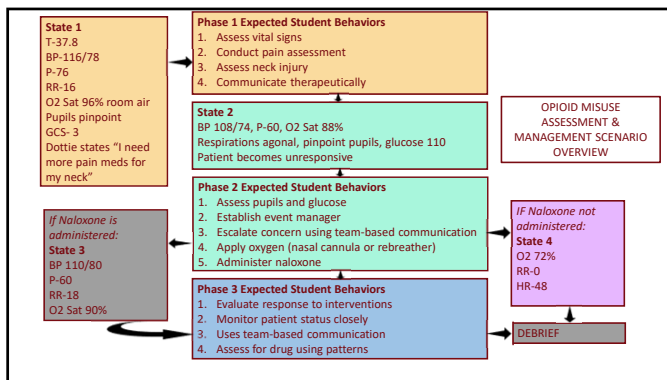
Critical behaviors needed:

If not met:

- Assess Pupils
- Care delay
- Check Glucose
- Care delay
- Provide Oxygen
- Pt harm
- Administer naloxone
- Pt harm

Story Board Creation

Scenario A: Welcome message and introduction		
<p>Content A:</p> <p>Video Opening Scene of Resident providing students with a description of the patient status.</p> <p>Link to video A2:ResidentReport.mp4</p> <p>How do you want to proceed?</p> <ol style="list-style-type: none"> 1. Review the chart? 2. Interview when to patient <p>Content B:</p> <p>How do you want to proceed?</p> <ol style="list-style-type: none"> 1. Review the chart? 2. Interview when to patient <p>Content C:</p> <p>What priority data is needed by the chart review?</p> <ol style="list-style-type: none"> 1. Medical history 2. Medication 3. Physiological data 4. Patient goals <p>Content D:</p> <p>What is your next step?</p> <ol style="list-style-type: none"> 1. Assess the patient? 2. Current treatment 	<p>Content A:</p> <p>How do you want to proceed?</p> <ol style="list-style-type: none"> 1. Review the chart? 2. Interview when to patient <p>Content B:</p> <p>How do you want to proceed?</p> <ol style="list-style-type: none"> 1. Review the chart? 2. Interview when to patient <p>Content C:</p> <p>What priority data is needed by the chart review?</p> <ol style="list-style-type: none"> 1. Medical history 2. Medication 3. Physiological data 4. Patient goals <p>Content D:</p> <p>What is your next step?</p> <ol style="list-style-type: none"> 1. Assess the patient? 2. Current treatment 	<p>Content A:</p> <p>How do you want to proceed?</p> <ol style="list-style-type: none"> 1. Review the chart? 2. Interview when to patient <p>Content B:</p> <p>How do you want to proceed?</p> <ol style="list-style-type: none"> 1. Review the chart? 2. Interview when to patient <p>Content C:</p> <p>What priority data is needed by the chart review?</p> <ol style="list-style-type: none"> 1. Medical history 2. Medication 3. Physiological data 4. Patient goals <p>Content D:</p> <p>What is your next step?</p> <ol style="list-style-type: none"> 1. Assess the patient? 2. Current treatment



Virtual Story

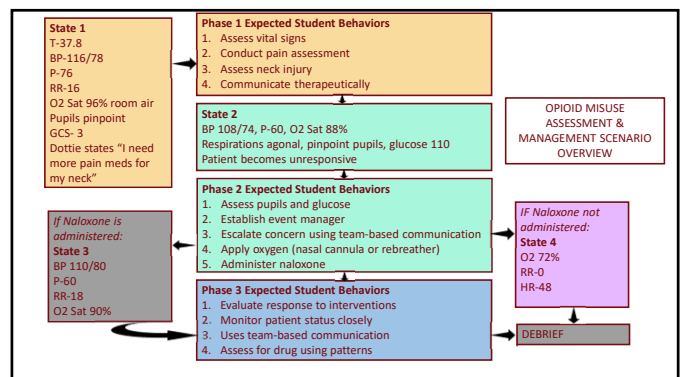
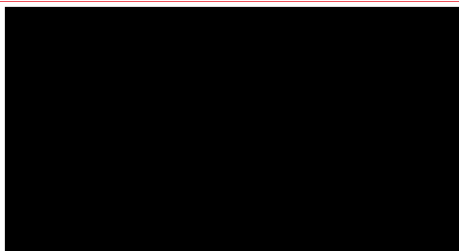
- Virtual story was built using Articulate Storyline®

- Software for creating interactives like simulations, quizzes, screen recordings, etc.
- Customizable
- Accessible on any device
- Can export in many ways (e.g., HTML5, SCORM, etc.)
- Slide-based interactions that blend graphics, audio, and video

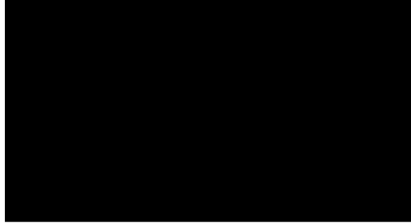
- Our project was built like a flowchart, using the storyboard as a guide:

- First slide is introduction
- Subsequent interactions branch out
- User interactions trigger certain responses
- User on a journey of her/his own decisions

Phase 1 Virtual Simulation



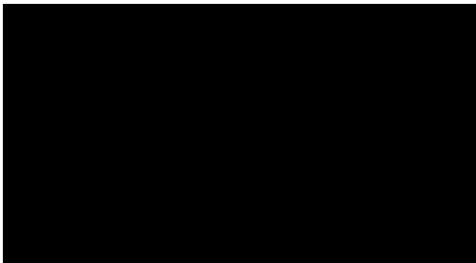
Phase 2 Virtual Simulation



RISE Course

- Maximizes the users experience of the virtual simulation
 - Simulation consists of two surveys (pre/post) and the simulation project - solution housed all three activities
 - Encouraged users to complete ALL three steps.
 - Users from multiple colleges requiring access – Solution did not require users being added to a course in advance to access the content
- The Articulate RISE authoring tool provides different publishing options
 - SCORM file within an ELS
 - Standalone project on the Articulate 360 servers
 - Useful if not requiring an LMS for gradebook reporting
- Very intuitive
 - Pre-programed navigation
 - Incorporates published Storyline projects, as well as media rich content and hyperlinks
 - Distributes using a direct URL link to users

RISE Course



Lessons Learned

1. Work with your instructional design when developing a virtual simulation
2. Identify most compatible software for your educational learning environment
3. Consider pass/fail grading option
4. Virtual simulations relieved certain logistical issues
 1. Physical space and equipment
 2. Need for facilitators
 3. Ease of scheduling

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