

Operations Wizardry On a Budget

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Teaching/Education



Disclosure

• Conflict of Interest

- Janet Willhaus reports no conflict of interest

Objectives

- Upon completion of this presentation, participants will be able to:
 - 1. Describe cost and time effective techniques for managing simulation supplies and simulation scenarios
 - 2. Describe an organizational method for preparing the simulation team for a simulation scenario
 - 3. Discover how to reseal and repackage an IV bag for multiple uses in a simulation center



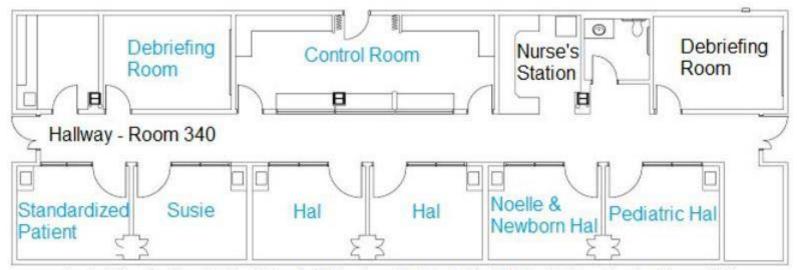


Introductions

- Janet Willhaus
 - facilitator of simulation research and scholarship;
 facilitator of Graduate Certificate in Healthcare Simulation
 and teacher of Simulation Operations; Level 3 simulation
 faculty



• Just a little about our simulation center.....



Susie | Standardized Patient | Noelle & Newborn Hal | Pediatric Hal | Debriefing | Control Room | Hal



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• Customers

- Nursing –our largest user
- Respiratory Care
- Radiology
- •Volume –AY 2015/2016
 - Unique learners –682
 - Total simulations -1231
 - Total learner hours -7347



Problem: How are we going to keep track of what is going on?

Google Calendar

- Available
- Easy to duplicate events
- Easy to create repeating events
- Everyone can see
- Can create more detail in description box





Problem: How are we going to keep everyone on the same "page" during simulations?

Scenario Template

- Create your own or use existing
- All information in one spot
- Techs know how to setup
- Students have prep materials
- Faculty/techs know progression
- Debriefing is consistent

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		BOISE STATE UNIVERSITY										
	1			COLLEGE OF HEALTH SCIENCES Simulation Center								
					Guided Reflection Debriefing	Guide						
Last Review		Manikin/			Outcomes/Performance Measures/Objectives	Debriefing Prompt						
Scenario Na Author: Content Exp Learner Gro	Patient Nan Age: Gender:	Type: Position	HR: BP: SPO2:	Opening	Initial group discussion/facilitation	 ✓ How do you think things went? ✓ Can someone give me a quick summary of the scannio? ✓ What did you see? ✓ How was that? 						
1 What an 2 3 4	Diagnosis History of P Past Medic:	Environr	Ausc Lungs: Heart: Bowel:	Clinical Reasoning & Critical Inquiry	Objectives come from the first page under "Facilitator Information." There may not be an objective for every curricular thread.	 Tell me about the priorities of your patient care? 						
Very brief de	Current Mer	Safety	Mental Sta Vocal Exar	0								
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1 Desired not distr 3	Other		HR: BP: SPO2:	Closing	Wrap up group discussion	 What would you do differently next time? What are some things from this 						

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Problem: How are we going to schedule and communicate with all users involved with simulations?

SignUpGenius.com

- SPs, faculty, staff, students
- Free
- Easily build signups
- Invite to signup
- Can review their signups at any time
- Can send emails to groups
- Auto reminders for session sent out via SignUp Genius
- Print signups



Problem: Each faculty suggested a different medication and/or dilution when requesting a setup for deliberate repetitive practice (DRP)?

- Generally faculty were less concerned about the specific medication, but wanted practice with general medication administration
- Develop a **formulary**/generic MAR
- Have several meds available for each delivery type (PO, IM, subcutaneous, IV, etc.)
- Stock pre-made meds



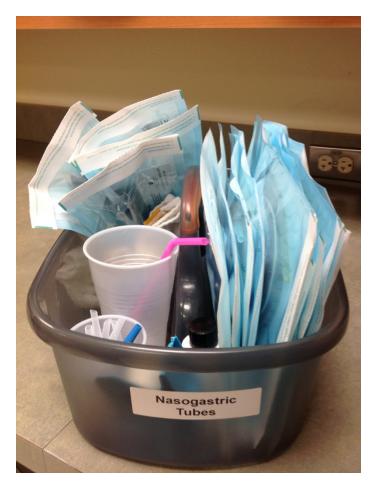


Problem: How to manage supplies for specific





Problem: How to manage supplies for specific procedures?





Problem: How can we turnover the rooms quicker

between simulations?

- Template: checklist for room and simulation
- Bleeding patient
 - Line the underside of the gown with plastic film (ie: Opsite, Tegaderm)
- Suicidal client
 - Zip ties on cabinets and leaving select items



Technician/Facilitator Go-Live Checklist

- Confirm scenario(s) name and order
- Confirm staging is complete
 - o Pump, headwall, lights, moulage (spray), medication cart/supplies
 - Patient chart
 - SPs (if needed)
 - Prepped
 - moulaged
- Confirm all hardware is ready
 - Patient room:
 - manikin charged
 - power strip on
 - patient vitals computer
 - Control station:
 - both computers up
 - manikin software up
 - manikin in initial state
 - EMS software up and feeds set

 camera control & presets
 - voice changer up and set
 - headphones checked
 - check recording capabilities (if needed)

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- Debriefing room:
 - computer up
 - EMS software up and feeds set

Facilitator packet prepped and stationed
 Session ready- set- go





Problem: How are we going to keep the simulation setups organized?

Scenario Boxes

- Everything ready to go
- Techs can quickly grab and setup
- Everything goes back in correct box



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Problem: How can we create realistic labeling?

Google Images

- Readily available
- Lots to choose from
- Remove specific manufacturer identifiers

Dymo Label Maker

• A must have





Problem: How are we going to have a running IV?

Drain Bags

- Manikin arms don't work that well for a flowing IV
- Bypass the manikin arm





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Problem: How can we avoid a new IV setup for each simulation?

IV Bag Removable Tags

- Can leave IV setup attached to manikin
- Attach business card holder to bag
- Change labeling only
- Looks professional
- Keep tag labels in setup boxes for each simulation



Problem: How can we re-package disposable supplies but make them look "real?"

Self Sealing Sterilization Pouches

- Students get experience of opening supplies
- Helps maintain fidelity of the simulation
- Looks professional, \$5-\$45 for 200







Repackaging list

- Sterile drapes (polylined towels)
- NG tubes
- Saline fluids (100cc-1000cc)
- Levofloxacin
- Lovenox
- Chloraprep
- Trach suction catheter w/ sleeve 10fr.
- IV extension sets
- Saline flush
- IV microclave
- Nasal cannula
- Non rebreather oxygen mask
- Simple mask
- Inner cannula for trach
- IV primary tubing
- Secondary tubing
- Q-tip for sterile procedures
- Trach suction kit (includes suction catheter and sterile gloves)
- 60mL syringe



Problem: How can we re-package disposable supplies but make them look "real?"



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Problem: How can we reuse saline and heparin lock flushes?

• Use sealable sterilization pouches







Problem: How can we make "cysts" for our nurse practitioner students to practice lancing?

 <u>An Abscess Model for Teaching Incision and Drainage</u> <u>Techniques to Pediatric Residents</u>





Problem: Faculty are requesting a new/packaged biopatch for each CVL dressing change practice? Biopatches cost \$10. What to do?

Make Our Own

- Adapted an existing example
- Students get the experience of opening a new supply each

time



Source: Carol Okupniak, MSN, RN, director, Center for Interdisciplinary Clinical Simulation and Practice , Drexel University's College of Nursing and Health Professions





Problem: How can we reuse IV bags?

- Evolution of solutions
 - Golf tees
 - Hot glue gun
- Current solution
 - Parafilm, Tubing
 - \$25.00 roll 2' x 250"



Problem: How can we provide non-intrusive cues when needed?

- iPads labs, x-rays
- Something missing: come in as a character from central supply, unit clerk
- Radios for standardized patients
 - Ear buds
 - Hiding in the drawer



Problem: How can we modulate the voice of the person that is speaking for the manikin?

- Voice changer
 - Microphone control room
 - Electro Harmonix control room
 - Wireless transmitter control room
 - Wireless receiver simulation room
 - Powered speaker simulation room









Problem: Needed to have phones in the simulation rooms, but didn't want to pay for monthly phone lines...

Intercom Phones

- A simple and inexpensive solution
- Conference call
- Students can call out or faculty can call in
- Speaker phone





Problem: How to get students to do Evaluations?

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Problem: How can we manage data and computers?

- Data Syncing
 - Dropbox
 - Google Apps
 - One Drive
 - Shared Drive
- Remote Management
 - Splashtop



Problem: How do we kept SP's safe using airway intervention?



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Problem: How do we kept things safe?

- Caution for repackaging and relabeling
- Simulated versus real supplies
- No real drugs allowed
- Things must be labeled carefully







Problem: How to do moulage?

- Chez Moulage recipe book from Laerdal
- Recipes for Disaster METI (now CAE)
- Moulageconcepts.com
- Sickkitchen.com
- Smooth-on.com
- Local theater supply
- Halloween stores after Halloween
 - Tattoo sleeves





Activity

- Resealing an IV bag
- Other packet materials



Now lets hear from you!



QUESTIONS??

<u>Email</u>

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THANK YOU!!