IPE Disaster Course & Simulation Development

Dr. Teresa Gore, Nursing
Dr. Dawn Schocken, Undergraduate Medical Education
Dr. Rita D’Aoust, Nursing
Dr. Erini Serag-Bolos, Pharmacy
Dr. Oma Singh, Nursing Education Design Team
Ms. Davina Devries, Nursing Project Manager
Dr. Amy Schwartz, Pharmacy
ANCC
Continuing Nursing Education

INACSL is an accredited ANCC provider

- Successful Completion
- Attend 90% of session
- Complete evaluation
Disclosures

Conflict of Interest

• Teresa Gore, discloses
  • President of INACSL, co-developer of the INACSL-CAE Healthcare Simulation Fellowship, and co-developer of SLS Simulation for Leadership

• Dawn Schocken has no disclosures

• Rita D’Aoust
  • Chair AACN Organizational Leadership Network, National League For Nursing Board Member for Certification for Nurse Educators

• Erini Serag-Bolos has no disclosures

• Oma Singh has no disclosures

• Davina Devries has no disclosures

• Amy Schwartz has no disclosures

• Julia Greenawalt (INACSL Conference Administrator & Nurse Planner)
  • Reports no conflict of interest

• Leann Horsley (INACSL Lead Nurse Planner)
  • Reports no conflict of interest
Objectives

Upon completion of this presentation, the participants will be able to:

1. Develop an IPE Team for collaboration
2. Discuss the essential steps in the process of course development with a standardized matrix
3. Review the simulation scenario and use of SPs and mannequins
4. Provide evaluation and feedback from facilitators and participants along with lessons learned
Background

• Within our constantly changing world, disasters are a common occurrence
  – Natural
  – Man-made
• Responsible for teaching healthcare students to be prepared not only in the hospital, but also in their community
• Live in Tampa, Florida
  – Level 1 Trauma Center is built on an island
  – Great video of a Category 5 Hurricane making landfall in Tampa
    • [https://www.youtube.com/watch?v=7jFGEzYam40](https://www.youtube.com/watch?v=7jFGEzYam40)
Intervention

- Interprofessional team developed a comprehensive disaster preparedness course with the educational design team targeted for USF Health students
  - Medicine, Nursing, Pharmacy, Physical Therapy, Public Health

- Online disaster course with three modules using a matrix for development with the Educational Design Team
  - Overview of Emergency Management Systems
  - Personal Preparedness
  - Teamwork and Communication

- Six-hour workshop
  - Orientation
  - Individual Emergency Plan
  - Basic First Aid
  - Simulation
  - Team and Communication Evaluation
  - Evaluation and Group Debrief
Participants

• 82 students volunteered
• 79 participated in the simulation
• 4 IPE teams
<table>
<thead>
<tr>
<th>Time</th>
<th>Group A</th>
<th>Group B</th>
<th>Group C</th>
<th>Group D</th>
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</thead>
<tbody>
<tr>
<td>0800-0900</td>
<td>Orientation to CACL and simulation, Prebrief, Team roles and responsibility and tools to evaluate team and communication MDC 1096</td>
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<td>0900-0950</td>
<td>Simulation MDN 1804</td>
<td>Team and Communication Evaluation MDN 1830</td>
<td>Basic First Aid MDN 2007</td>
<td>Write an Individual Emergency Plan MDN 2008</td>
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<td>1300-1400</td>
<td>Evaluation of simulation and course</td>
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Victims

- Head Trauma – Stable
- Head Trauma – Unstable – mannequin (deceased)
- Impalement
- Asthmatic Patient
- Diabetic Patient
- Minor Abrasion Patients (6)
- Anxiety Attack
- Shock – Internal Bleeding

- Minor Injuries Patients (2)
- Family looking for loved ones involved (2)
- Fractures (2)
- Electrical Burns (2)
- Chest Pain – Unstable – mannequin
- Generalized Pain
Evaluation Tools

- Simulation Evaluation for Students
- Simulation Evaluation for Facilitators
- Pre-Simulation Confidence Assessment
- Post-Simulation Confidence Assessment

- Students found the experience valuable

Self-Confidence Results
  - Results Pre-Simulation
    - 3.88/5
  - Post-Simulation
    - 4.37/5
Conclusion

• Valuable experiential learning
• Expensive
  – Seek funding for sustainment
• Implement for all USF Health students
  – Modules
  – Simulation
• Logistics
• Lessons Learned
  – Change the workshop day
    • Omit Personal Preparedness Plan
    • Omit Team and Communication Evaluation
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Contact Information

- Teresa Gore, PhD, DNP, FNP-BC, NP-C, CHSE-A
  - tgore@health.usf.edu
- Dawn Schocken, PhD, MPH, CHSE-A
  - dschock1@health.usf.edu
- Rita D’Aoust, PhD, ANP-BC, CNE, FAANP, FNAP
  - rdaoust@health.usf.edu
- Erini Serag-Bolos, PharmD
  - eserag@health.usf.edu
- Oma Singh, PhD
  - obaliram@health.usf.edu
- Davina Devries, MEd
  - ddevrie1@health.usf.edu
- Amy Schwartz, PharmD
  - aschwar1@health.usf.edu