

SERIOUS FUN!

Interdisciplinary simulation training to improve resident skill

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What We Did

- Family Medicine residents requested more training in the resuscitation of the critically ill patient beyond life support courses
- We used simulation of the acutely ill patient to simultaneously assess skill development and the benefit of interdisciplinary training of residents with senior nursing students



How We Did It

- Partnered with Nursing School faculty and senior nursing students in the Minnesota State University - Mankato School of Nursing 4G simulation lab
- Four different emergent medical scenarios; A-Fib/SVT, GI bleed, head injury, CHF/pulmonary edema
- Repeated training sessions twice yearly for 2 days beginning in 2014
- Residents completed pre- and post-training surveys; Principal component analysis identified 3 subcategories related to training



What We Learned

- Resident reported that training with nursing students helped them to:**
 - Better provide compassionate, competent, and coordinated care ($p=0.02$)
 - Feel more comfortable coordinating team-based care ($p=0.03$)
 - Effectively communicate with health professionals and the health care team ($p=0.02$)
- Residents reported that use of patient simulation:**
 - Helped them stabilize acutely ill patients utilizing appropriate clinical guidelines, protocols, and critical thinking skills ($p<0.01$)
 - Provided culturally proficient care ($p<0.01$)
 - Left them desiring more simulation training ($p=0.01$)
 - Left them desiring more interdisciplinary training ($p=0.03$)
- Residents reported that their skills in the resuscitation of critically ill:**
 - Did not change significantly ($P=0.12 - 0.49$)

What's Next

- Interdisciplinary training using simulation provides a realistic yet safe training experience
- Plan to continue twice yearly simulation training
- Residents requested to train with other disciplines as well:
 - Respiratory therapy
 - Emergency medicine
 - Pharmacy
- Other simulation scenarios suggested:
 - Stroke management
 - Hypertensive emergency
 - Trauma and shock
 - OB emergencies
 - STEMI/NSTEMI



Acknowledgements

Colleen Royle, EdD, MSN, RN
Patricia Kaye Young, PhD, RN
Minnesota State University - Mankato



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DEPARTMENT OF FAMILY MEDICINE AND COMMUNITY HEALTH