



# A Comparison of Two Approaches to Orient Prelicensure Nursing Students to a Simulated Learning Environment

Lauren Porembski, MSN, RN  
Linnea Fletcher, EdD, MSN, RN, CEN, TCRN  
Tara Spalla King, PhD, RN



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# Background

- Student stress & anxiety related to simulation
- Current state of simulation & orientation
- New style of orientation



# Methods

- Applied for IRB, determined to be a QI project
- 168 sophomore nursing students
- Approximately ½ attended the new orientation
- Remaining students were the control group
- Post-simulation survey – 145 respondents
  - 18 total questions
  - Modified STAI / GSE scales
  - 4 point Likert scale
  - 3 qualitative questions



# Results

- Qualitative
  - Several desired changes
  - Numerous items to stay the same
- Quantitative
  - Only 1 statistically significant difference between the 2 groups
  - Numerous non-significant differences



# Discussion

- Conflicted data
  - Control group felt better prepared to handle whatever came their way
  - Treatment group scores trended in the direction of feeling less worried
- Small sample size



# Limitations / Future Implications

- Scheduled during lab time
- New orientation was unexpected
- Static mannikins used in sophomore year
- Gap over summer
- Will continue QI project



# References

- Beischel, K.B. (2013). Variables affecting learning in a simulation experience: A mixed methods study. *Western Journal of Nursing Research, 35*, 226-247.
- Cato, M.L. (2013). *Nursing student anxiety in simulation settings: A mixed methods study (Doctoral dissertation)*. Portland State University, Portland, Oregon.
- Deegan, M. & Terry, L. (2013). Student midwives' perceptions of real-time simulation: A qualitative phenomenological study. *British Journal of Midwifery, 21*, 590-598.
- de Souza Teixeira, C.R., Pereira, M.C.A., Kusumota, L., Gaioso, V.P., Lima de Mello, C. & Campos de Carvalho, E. (2015). Evaluation of nursing students about learning with clinical simulation. *Investigacion and Educacion en Enfermeria, 68*(2), 284-291. <https://doi.org/10.1590/0034-7167.2015680218i>
- Gantt, L.T. (2013). The effect of preparation on anxiety and performance in summative simulations. *Clinical Simulation in Nursing, 9*, e25-e33.
- Halabi-Najjar, R., Lyman, B. & Miehl, N. (2015). Nursing students' experiences with high-fidelity simulation. *International Journal of Nursing Education Scholarship, 12*(1), 1-9.
- Hayden, J.K., Smiley, R.A., Alexander, M., Kardong-Edgren, S., & Jeffries, P. (2014). The NCSBN national simulation study: A longitudinal, randomized, controlled study replacing clinical hours with simulation in prelicensure nursing education. *Journal of Nursing Regulation, 5*(2), S1-S64.
- INACSL Board of Directors. (2016, December). INACSL standards of best practice: SimulationSM Simulation design. *Clinical Simulation in Nursing, 12*(S), S5-S12. DOI: <https://doi.org/10.1016/j.ecns.2016.09.005>
- Kameg, K.M., Englert, N.C., Howard, V.M. & Perozzi, K.J. (2013). Fusion of psychiatric and medical high fidelity patient simulation scenarios: Effect on nursing student knowledge, retention of knowledge, and perception. *Issues in Mental Health Nursing, 34*, 892-900.
- Lasater, K. (2007). High-fidelity simulation and the development of clinical judgement: Students' experiences. *Journal of Nursing Education, 46*, 269-276.
- Luszczynska, A. & Scholz, U. & Schwarzer, R. (2005). The general self-efficacy scale: Multicultural validation studies, *The Journal of Psychology, 139*(5), 439-457. doi:10.3200/JRLP.139.5.439-457
- Marteau, T. & Bekker, H. (1992). The development of a six-item short-form of the state scale of the Spielberger State-Trait Anxiety Inventory (STAI). *Br J Clin Psychol, 31*(3), 301-306.
- Mucker, V.C. (2017). Exploring suspension of disbelief during simulation-based learning. *Clinical Simulation in Nursing, 13*, 3-9. doi:10.1016/j.ecns.2016.09.004
- Paige, J.B. & Morin, K.H. (2015). Diversity of nursing student views about simulation design: A Q-methodological study. *Journal of Nursing Education, 54*, 249-261.
- Walton, J., Chute, E. & Ball, L. (2011). Negotiating the role of the professional nurse: The pedagogy of simulation: A grounded theory study. *Journal of Professional Nursing, 27*, 299-310. doi:10.1016/j.profnurs.2011.04.005dd text



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**Lauren Porembski, MSN, RN**

Instructor of Clinical Practice

The Ohio State University

College of Nursing

[porembski.7@osu.edu](mailto:porembski.7@osu.edu)



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