

References vSim and Shadow Health study

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- Badowski, D., Rossler, K. L., & Reiland, N. (2021). Exploring student perceptions of virtual simulation versus traditional clinical and manikin-based simulation. *Journal of Professional Nursing, 37*(4), 683-689. <https://doi.org/10.1016/j.profnurs.2021.05.005>
- Baumann, E. B., & Wolfenstein, M. (2013). Evolving field of virtual environments and game-based learning in nursing. In Eric B. Bauman (Ed.), *Game-based teaching and simulation in nursing and healthcare*. New York, NY: Springer Publishing Company.
- Brigham, T. J. (2017). Reality check: Basics of augmented, virtual, and mixed reality. *Medical Reference Services Quarterly, 36*(2), 171-178.
<https://doi.org/10.1080/02763869.2017.1293987>
- Brown, K. M., Swoboda, S. M., Gilbert, G. E., Horbath, C., & Sullivan, N. (2021). Integrating virtual simulation into nursing education: A roadmap. *Clinical Simulation in Nursing*.
<https://doi.org/10.1016/j.ecns.2021.08.002>
- Cobbett, S., & Snelgrove-Clark, E. (2016). Virtual versus face-to-face clinical simulation in relation to student knowledge, anxiety, and self-confidence in maternal-newborn nursing: A randomized controlled trial. *Nurse Education Today, 45*, 179-184.
<https://doi.org/10.1016/j.nedt.2016.08.004>
- Dalbey, S. (2021). Selection of virtual simulation products: Making the right choice. *Teaching and Learning in Nursing, 16*(2), 135-138. <https://doi.org/10.1016/j.teln.2020.10.004>
- Davis, M. D. (1997). *Game Theory: A nontechnical introduction (unabridged Revised Ed.)*. Original (1983) edition, New York, NY Basic Books. Revised edition: Mineola, NY: Dover Publications.

Publications.

Deann, S. (2017). *The effectiveness of virtual clinical simulation on the transferability of clinical nursing skills to practice*. Sigma Repository. <http://hdl.handle.net/10755/622611>

Díaz, D. A., Anderson, M., Hill, P., Quelly, S. B, Clark., K., & Lynn, M. (2021). A comparison of clinical options: High-fidelity manikin-based and virtual simulation. *Nurse Educator*, 46(3), 149-153. <https://doi.org/10.1097/NNE.0000000000000906>

Elsevier. (n. d.). *Shadow Health®*.

<https://evolve.elsevier.com/education/simulations/shadow-health/>

Fogg, N., Wilson, C., Trinka, M., Campbell, R., Thomson, A., Merritt, L., Tietze, M., & Prior, M. (2020). Transitioning from direct care to virtual clinical experiences during the COVID-19 pandemic. *Journal of Professional Nursing*, 36(6), 685-691. <https://doi.org/10.1016/j.profnurs.2020.09.012>

Foronda, C. L., Alfes, C. M., Dev, P., Kleinheksel, A. J., Nelson Jr., D. A., O'Donnell, J. M., & Samosky, J. T. (2017). Virtually nursing: Emerging technologies in nursing education. *Nurse Educator*, 42(1), 14-17. <https://doi.10.1097/NNE.0000000000000295>

Foronda, C., & Bauman, E. B. (2014). Strategies to incorporate virtual simulation in nurse education. *Clinical Simulation in Nursing*, 10(8), 412-418. <https://doi.org/10.1016/j.ecns.2014.03.005>

Foronda, C. L., Fernandez-Burgos, M., Nadeau, C., Kelley, C. N., & Henry, M. N. (2020). Virtual simulation in nursing education: A systematic review spanning 1996 to 2018. *Simulation in Healthcare: Journal of the Society for Simulation in Healthcare*, 15(1), 46-54. <https://doi.org/10.1097/SIH.0000000000000411>

Gerup, J., Soerensen, C. B., & Dieckmann, P. (2020). Augmented reality and mixed reality for

- healthcare education beyond surgery: An integrative review. *International Journal of Medical Education*, 11, 1-18. <https://doi.org/10.5116/ijme.5e01.ebla>
- Goldsworthy, S., Ferreira, C., Shajani, Z., Snell, D., & Perez, G. (2022). Combining virtual and high-fidelity simulation to foster confidence and competency in postpartum assessment complications among undergraduate nursing students. *Clinical Simulation in Nursing*, 66, 18-24. <https://doi.org/10.1016/j.ecns.2022.02.001>
- Havola, S., Haavisto, E., Mäkinen, H., Engblom, J., & Koivisto, J.-M. (2021). The effects of computer-based simulation game and virtual reality simulation in nursing students' self-evaluated clinical reasoning skills. *CIN: Computers, Informatics, Nursing*, 39(11), 725-735. <https://doi.org/10.1097/CIN.0000000000000748>
- Hudder, K., Buck-McFadyen, E., Regts, M., & Bushuk, K. (2021). A quasi-experimental study comparing virtual simulation to lab-based learning of newborn assessment among nursing students. *Clinical Simulation in Nursing*, 55, 49-66. <https://doi.org/10.1016/j.ecns.2021.04.002>
- Huun, K. (2018). Virtual simulations in online nursing education: Align with quality matters. *Clinical Simulation in Nursing*, 22, 26-31. <https://doi.org/10.1016/j.ecns.2018.07.002>
- IBM (2020). *IBM SPSS statistics for windows, version 27.0*. Armonk, NY: IBM Corp.
- INACSL Standards Committee, McDermott, D. S., Ludlow, J., Horsley, E., & Meakim, C. (2021, September). Healthcare Simulation Standards of Best Practice™ Prebriefing: Preparation and Briefing. *Clinical Simulation in Nursing*, 58, 9-13. <https://doi.org/10.1016/j.ecns.2021.08.008>
- Jeffries, P. R. (2016). *The NLN Jeffries Simulation theory* (P.R. Jeffries, Ed.). Philadelphia, PA. Wolters Kluwer.

- Kaplan. (n. d.). *i-Human Patients*®. Retrieved June 26, 2022, from <https://www.i-human.com/>
- Kardong-Edgren, S., Farra, S. L., Alinier, G., & Young, H. M. (2019). A call to unify definitions of virtual reality. *Clinical Simulation in Nursing*, 31, 28-34.
<https://doi.org/10.1016/j.ecns.2019.02.006>
- Knapp, H. (2017). *Practical statistics for Nursing using SPSS*®. Thousand Oaks, CA: Sage Publishing.
- Krippendorff, K. (2019). *Content analysis: An introduction to its methodology* (4th ed). Los Angeles, CA. Sage Publishing.
- Kubin, L., Fogg, N., & Trinka, M. (2021). Transitioning child health content from direct care to online instruction. *Journal of Nursing Education*, 60(3), 177-179.
<https://doi.org/10.3928/01484834-20210222-11>
- Leibold, N., & Schwarz, L. (2017). Virtual simulations: A creative, evidence-based approach to develop and educate nurses. *Creative Nursing*, 23(1), 29-34.
<https://doi.org/10.1891/1078-4535.23.1.29>
- Leighton, K. (2022, May 14 updated). *Clinical learning environment comparison survey 2.0*. Evaluating Healthcare Simulation. Retrieved July 22, 2022, from <https://sites.google.com/view/evaluatinghealthcaresimulation/clecs/clecs-2-0>
- Leighton, K., Ravert, P., Mudra, V., & Macintosh, C. (2015). Updating the Simulation Effectiveness Tool: Item modifications and reevaluation of psychometric properties. *Nursing Education Perspectives*, 36(5), 317-323. <https://doi.org/10.5480/15-1671>
- Leighton, K., Ravert, P., Mudra, V., & Macintosh, C. (2018). *Simulation Effectiveness Tool – Modified (virtual)*. Evaluating Healthcare Simulation. Retrieved July 22, 2022, from <https://sites.google.com/view/evaluatinghealthcaresimulation/set-m>

- Lioce, L. (Ed.), Lopreiato, J. (Founding Ed.), Downing, D., Chang, T. P., Robertson, J. M., Anderson, M., Díaz, D. A., & Spain, A. E. (Associate Eds) and the Terminology and Concepts Working Group. (2020). *Healthcare Simulation Dictionary* (2nd ed). Agency for Healthcare Research and Quality; September 2020. <https://doi.org/10.23970/simulationv2>
- Luo, Y., Geng, C., Pei, X., Chen, X., & Zou, Z. (2021). The evaluation of the distance learning combining webinars and virtual simulations for senior nursing students during the COVID-19 period. *Clinical Simulation in Nursing*, 57, 31-40. <https://doi.org/10.1016/j.ecns.2021.04.022>
- Merriam, S. B., & Bierema, L. L. (2014). *Adult learning: Linking theory and practice*. San Francisco, CA: Jossey-Bass.
- Park, S., Hur, H. K., & Chung, C. (2022). Learning effects of virtual versus high-fidelity simulations in nursing students: A crossover comparison. *BMC Nursing*, 21, art. 100. <https://doi.org/10.1186/s12912-022-00878-2>
- Plass, J. L., Homer, B. D., Mayer, R. E., & Kinzer, C. K. (2020). Theoretical foundations of game-based and playful learning. In J. L. Plass, R.E. Mayer, & B.D. Homer (Eds.), *Handbook of game-based learning* (pp. 3-24). The MIT Press.
- Rim, D., & Shin, H. (2022). Development and assessment of a multi-user virtual environment nursing simulation program: A mixed methods research study. *Clinical Simulation in Nursing*, 62, 31-41. <https://doi.org/10.1016/j.ecns.2021.10.004>
- Ryerson. (n. d.). *Virtual Healthcare Experience*. Retrieved June 26, 2022, from <https://de.ryerson.ca/games/nursing/hospital/>
- Schiavenato, M., Edwards, S., Tiedt, J., & Owens, J. (2022). Comparing the learning effectiveness of three virtual simulation tools with nursing students during the Coronavirus Disease (COVID-19) pandemic. *Clinical Simulation in Nursing*, 67, 18-23.

<https://doi.org/10.1016/j.ecns.2022.03.003>

Schultze, S. R., Mujica, F. C., & Kleinhesksel, A. J. (2019). Demographic and spatial trends in diabetes-related virtual nursing examinations. *Social Science & Medicine*, 222, 225-230.

<https://doi.org/10.1016/j.socscimed.2019.01.002>

Schön, D. (1987). *Educating the reflective practitioner. Toward a new design for teaching and learning in the professions*. San Francisco, CA: Jossey-Bass.

Sharoff, L. (2022). Students' perception of vSim for Nursing® using the Simulation Effectiveness Tool –Modified. *Clinical Simulation in Nursing*, 68, 1-8.

<https://doi.org/10.1016/j.ecns.2022.04.006>

Sherman, W. R., & Craig, A. B. (2019). *Understanding virtual reality: Interface, application, and design* (2nd ed). Cambridge, MA: Morgan Kaufmann.

Society for Simulation in Healthcare. (n.d.). *CHSE: Certified Healthcare Simulation Educator®*.

Retrieved July 22, 2022, from <https://www.ssih.org/Credentialing/Certification/CHSE>

Strekalova, Y. A., Krieger, J. L., Kleinheksel, A. J., & Kotranza, A. (2017). Empathetic communication in virtual education for nursing students: I'm sorry to hear that. *Nurse Educator*, 42(1), 18-22. <https://doi.org/10.1097/NNE.0000000000000308>

Ventre, K. M., & Schwid, H.A. (2014). Computer and web-based simulators. In Levine, De Maria, Schwartz & Sim (Eds.), *The comprehensive textbook of healthcare simulation* (chapter 14, 191-208). New York, NY: Springer Publishing.

Von Neumann, J., & Morgenstern, O. (1953). *Theory of games and economic behavior* (3rd ed.). Princeton University Press.

Weston, J., & Zauche, L. H. (2021). Comparison of virtual simulation to clinical practice for prelicensure nursing students in pediatrics. *Nurse Educator*, 46(5), E95-E98.

<https://doi.org/10.1097/NNE.0000000000000946>

Wilson, C., Jimenez, F. A., Potts, N., & Wright, N. (n. d.). *Measuring efficiency in nursing student patient care skills using the Digital Clinical Experiences (DCE)™* [White paper].

Shadow Health. Retrieved July 22, 2022 from

<https://evolve.elsevier.com/education/simulations/shadow-health/research/>

Wolters Kluwer. (n. d.-a). *vSim® for nursing*.

<https://www.wolterskluwer.com/en/solutions/lippincott-nursing-faculty/vsim-for-nursing>

Wolters Kluwer. (n.d.-b). *vSim for nursing simulation scenarios – Maternity and pediatrics*.

<https://www.wolterskluwer.com/en/solutions/lippincott-nursing-faculty/vsim-for-nursing/nursing-simulation-scenarios>.