

THE INFLUENCE OF SIMULATION TRAINING ON QUALITY AND SAFETY OF CARE: A PROTOCOL REVIEW

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Background: The use of simulation training has been described as one of the precursors to the development of collaborative work by health teams and its consequent impact on the quality and safety of care in hospital health organizations (1,2). Our objective is to map the available scientific evidence on the influence of simulation training on the quality and safety of care in hospital health organizations.

Materials and methods: The proposed review will be conducted in accordance with the Joanna Briggs Institute methodology for scoping reviews (3), in order to answer the research question: What is the influence of simulation training on the quality and safety of care in hospital health organizations?

Three-stage search strategy. Initial search in MEDLINE and CINAHL in order to analyze the words of the text and the index terms contained in the title and abstract of the identified articles. To identify articles, the strategy “simulation training OR simulation education OR simulation learning [All fields] AND “hospital” [All fields] AND “quality of health care” [All fields] AND “patient safety” [All fields] will be used. In the second step, the indexing terms and keywords will be used and combined to perform a complete search in the MEDLINE Complete®, CINAHL Complete® and ProQuest Dissertations and Theses® and OpenGrey®, to identify unpublished studies. The third step includes the identification of additional studies in the reference lists of the studies identified to integrate the scoping review.

We will consider primary studies, quantitative, qualitative or mixed methods, published in peer-reviewed journals or available in grey literature, in English, Portuguese, French or Spanish, whose text is available in full version and which report evidence about the influence of clinical nursing simulation on the quality and safety of care. The selection of studies, based on title and abstract analysis, will be performed by two independent reviewers, and a third reviewer will be recruited to decide in case of doubt.

Results: The data of interest extraction will be performed using a purpose-built instrument. The extracted data will be documented in diagrammatic or tabular format, accompanied by a narrative summary.

Conclusions: Simulation-based education has a positive impact on nurses and others professionals knowledge/skills, as clinicians and as team members, but Little is known about the clinical impact on quality of care and patient safety (4). Effective teamwork and interprofessional and collaborative practice are essential for healthcare quality and all aspects of patient safety (5).

Performing this scoping review, we expect to produce a comprehensive mapping of knowledge from different perspectives on the influence of simulation training on the quality and safety of care.

Key words: simulation training; quality of health care, patient safety, hospital

References:

- 3-Aromataris E. & Munn Z (Editors). *JBIM Manual for Evidence Synthesis*. JBI, 2020. Available from <https://syntesismanual.jbi.global>. <https://doi.org/10.46658/JBIMES-20-01>
- 4-Cant, R. P., Cooper, S. J., & Lam, L. L. Hospital nurses' simulation-based education regarding patient safety: A scoping review. *Clinical Simulation in Nursing*, 2020, 44(C):19-34. Available from <https://doi.org/10.1016/j.ecns.2019.11.006>.
- 1- Hazwani, T. R., Harder, N., Shaheen, N. A., Al Hassan, Z., Antar, M., Alshehri, A., Alali, H., & Kazzaz, Y. M. Effect of a pediatric mock code simulation program on resuscitation skills and team performance. *Clinical Simulation in Nursing*. 2020, 44(C):42-49. Available from <https://doi.org/10.1016/j.ecns.2020.01.004>.
- 2- Kjaergaard-Andersen, G., Ibsgaard, P., Paltved, C., Jensen, H.I. An *in situ* simulation program: a quantitative and qualitative prospective study identifying latent safety threats and examining participant experiences. *International Journal for Quality in Health Care*, 2020 00(00): 1–7. Available from DOI: [10.1093/intqhc/mzaa148](https://doi.org/10.1093/intqhc/mzaa148)
- 5-Gèssel, E. v., Picchiottino, P., Doureradjam, R., Nendaz, M. & Mèche, P. Interprofessional training: Start with the youngest! A program for undergraduate healthcare students in Geneva, Switzerland. *Medical Teacher*. 2018, VOL. 40(6): 595–599. Available from <https://doi.org/10.1080/0142159X.2018.1445207>