

Supplementary Data 1. List of studies included in the scoping review

A1. Little J. Online support for medicine dosage calculations. *Br J Nurs.* 2006;15(21):1192-5.

doi: 10.12968/bjon.2006.15.21.22380.

A2. DeBourgh GA. Use of classroom "clickers" to promote acquisition of advanced reasoning skills. *Nurse Educ Pract.* 2008;8(2):76-87.

A3. Rangel EML, Costa Mendes IA, Cárnio EC, Marchi Alves LM, De Godoy S, de Almeida Crispim J. Development, implementation, and assessment of a distance module in endocrine physiology. *Adv Physiol Educ.* 2010;34(2):70-4. doi: 10.1152/advan.00070.2009.

A4. Efstathiou N, Bailey C. Promoting active learning using audience response system in large bioscience classes. *Nurse Educ Today.* 2012;32(1):91-5. doi: 10.1016/j.nedt.2011.01.017.

A5. Adwan J. Dynamic online peer evaluations to improve group assignments in nursing e-learning environment. *Nurse Educ Today.* 2016;41:67-72. doi: 10.1016/j.nedt.2016.03.028.

A6. Forsberg E, Ziegert K, Hult H, Fors U. Assessing progression of clinical reasoning through virtual patients: An exploratory study. *Nurse Educ Pract.* 2016;16(1):97-103. doi: 10.1016/j.nepr.2015.09.006.

A7. Gabriele KM, Holthaus RM, Boulet JR. Usefulness of video-assisted peer mentor feedback in undergraduate nursing education. *Clin Simul Nurs.* 2016;12(8):337-45. doi: 10.1016/j.ecns.2016.03.004.

A8. Mackavey C, Cron S. Innovative strategies: Increased engagement and synthesis in online advanced practice nursing education. *Nurse Educ Today*. 2019;76:85-8. doi: 10.1016/j.nedt.2019.01.010.

A9. Sheng R, Goldie CL, Pulling C, Luctkar-Flude M. Evaluating student perceptions of a multi-platform classroom response system in undergraduate nursing. *Nurse Educ Today*. 2019;78:25-31. doi: 10.1016/j.nedt.2019.03.008.

A10. Ahlstrom L, Holmberg C. A comparison of three interactive examination designs in active learning classrooms for nursing students. *BMC Nurs*. 2021;20(1):1-12. doi: 10.1186/s12912-021-00575-6.

A11. Darnell D, Areán PA, Dorsey S, Atkins DC, Tanana MJ, Hirsch T, et al. Harnessing innovative technologies to train nurses in suicide safety planning with hospitalized patients: Protocol for formative and pilot feasibility research. *JMIR Res Protoc*. 2021;10(12):e33695. doi: 10.2196/33695.

A12. Fernandez-Nieto GM, Echeverria V, Shum SB, Mangaroska K, Kitto K, Palominos E, et al. Storytelling with learner data: Guiding student reflection on multimodal team data. *IEEE Trans Learn Technol*. 2021;14(5):695-708. doi: 10.1109/TLT.2021.3131842.

A13. Lin KY. Two-tier instant-feedback assessment strategy for improvement of student concentration. *CIN Comput Inform Nurs*. 2022;40(7):447-54. doi: 10.1097/CIN.0000000000000847.

A14. Öz GÖ, Ordu Y. The effects of web-based education and Kahoot usage in evaluation of the knowledge and skills regarding intramuscular injection among nursing students. *Nurse Educ Today*. 2021;103:104910. doi: 10.1016/j.nedt.2021.104910.

A15. Coveney K, Somanadhan S, Nicholson E, Piga S, Pizziconi V, D'Elpidio G, et al. First-year nursing students' evaluation of Kahoot! to facilitate learning and testing knowledge: A pilot study in Ireland and Italy. *Teach Learn Nurs*. 2022;17(2):163-8. doi: 10.1016/j.teln.2021.11.004.

A16. Lin HC, Hwang GJ, Chang SC, Hsu YD. Facilitating critical thinking in decision-making based professional training: An online interactive peer-review approach in a flipped learning context. *Comput Educ*. 2021;173:104266. doi: 10.1016/j.compedu.2021.104266.

A17. Zhang YR, Hu RF, Liang TY, Chen JB, Wei Y, Xing YH, et al. Applying formative evaluation in the mentoring of student intern nurses in an emergency department. *Front Public Health*. 2022;10:974281. doi: 10.3389/fpubh.2022.974281.

A18. Cadet MJ. Application of game-based online learning platform: Kahoot as a formative evaluation tool to assess learning. *Teach Learn Nurs*. 2023;18(3):419-22. doi: 10.1016/j.teln.2023.03.009.

A19. Lajane H, Goufrane R, Arai M, Qaisar R, Chemsi G, Radid M. Mobile technology for learning assessment: Design process for the NursE-quiz mobile application. *Int J Interact Mob Technol*. 2023;17(10):228-41. doi: 10.3991/ijim.v17i10.37053.

A20. Ma T, Yuan H, Yang X, Li Y, Yao J, Mu D. Design of online formative assessment of nursing humanities curriculum during the COVID-19 pandemic: A teaching practice research. *Nurse Educ Today*. 2023;128:105874. doi: 10.1016/j.nedt.2023.105874.

A21. Nilsson T, Masiello I, Broberger E, Lindström V. Digital feedback during clinical education in the emergency medical services: A qualitative study. *BMC Med Educ*. 2023;23(1):1-8. doi: 10.1186/s12909-023-04138-y.

A22. Say R, Visentin D, Saunders A, Atherton I, Carr A, King C. Where less is more: Limited feedback in formative online multiple-choice tests improves student self-regulation. *J Comput Assist Learn*. 2023;1-15. doi: 10.1111/jcal.12868.

A23. Darnell D, Pierson A, Tanana MJ, Dorsey S, Boudreaux ED, Areán PA, et al. Harnessing innovative technologies to train nurses in suicide safety planning with hospital patients: formative acceptability evaluation of an eLearning continuing education training. *JMIR Form Res*. 2024;8:e56402.

A24. Say R, Visentin D, Saunders A, Atherton I, Carr A, King C. Where less is more: limited feedback in formative online multiple-choice tests improves student self-regulation. *J Comput Assist Learn*. 2024;40(1):89-103.

A25. Khalafi A, Choopani S, Sarvi-Sarmeydani N, Maraghi E. Using real-time Power BI formative feedback to improve nurse anesthesia students' clinical competence: an educational intervention. *Health Sci Rep*. 2025;8(1):e70358.