

## Avaliação de Cursos EaD para a Educação Continuada de Profissionais da Área da Saúde: Revisão Integrativa

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**Table 1:** Evaluation Categories (AC)

Assessment Categories (AC)
<p><b>1 General Aspects</b> addresses questions related to satisfaction with the course in general, such as: whether the course met the course-taker's expectations; whether the overall objective of the course was achieved; whether the course-taker would recommend the course to a colleague; whether the course-taker would take another similar course; whether the course contributed to making the course-taker more autonomous, committed and capable of developing their independence.</p>
<p><b>2 Institutional</b> concerned with aspects involving the services provided by the institution to the student and the course development team, such as administrative matters, academic matters and student services related to e-learning, as well as management/administrative control issues involving enrollment data, dropouts, graduates and student retention.</p>
<p><b>3 Technological</b> this deals with aspects pertaining to the VLE's technological infrastructure, covering, for example, hardware and software planning; internet connection quality and the distribution and availability of content posted on the VLE.</p>
<p><b>4 Design</b> refers to the general appearance of the environment, i.e. the design of the VLE. It involves aspects such as colors, menus, audio, videos, buttons and other iconographic elements, in order to evaluate items of usability, interactivity, navigability and accessibility.</p>
<p><b>5 Ethics</b> considers issues related to social and political influence, cultural diversity, prejudice, geographical diversity, student diversity, etiquette and legal issues.</p>
<p><b>6 Evaluation</b> indicates whether the study presents an evaluation of the course participants, which may include learning effectiveness, teaching evaluation (i.e. evaluation of the method or the evaluation itself adopted in the course); prior evaluation of knowledge, procedural evaluation and/or final evaluation of knowledge.</p>
<p><b>7 Educational</b> refers to the pedagogical and didactic aspects of the course, covering quality of content, learning activities, educational objectives, didactic resources made available, interaction and feedback provided.</p>



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**8 Actors - Students** refers to an assessment of the students/course participants regarding their perception of their motivation and commitment to taking the course (self-assessment), their learning and familiarity with the use of technology.

**9 Actors - Instructors/Teachers** refers to the perception and evaluation of the course participants in relation to the performance or services of the instructors/teachers during the course, and may involve questions of mediation, feedback, cordiality, mastery of the content, for example.

**10 Tutors:** refers to the perception and evaluation of the course participants in relation to the performance or services of the tutors during the course, and may involve perception of mediation, feedback, cordiality, mastery of the content, ability to explain, encouragement, discipline, stimulus, interpersonal relationships and interest of the tutors with the students.

Source: author's archive (2024).

**Table 2:** Identification and general characterization of IR studies

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N1	2022	VICENTE, C.R. et al. The Joint initiative for teaching and learning on global health challenges and one health experience on implementing an online collaborative course. <b>One Health</b> , Amsterdam, v. 15, p. 100409, Jun 2022. DOI: 10.1016/j.onehlt.2022.100409	I	General aspects Education	Bioethics in One Health, Careers in Global Health, Concepts of One Health, Interprofessional and collaborative practice in One Health/ Health professional
N2	2022	HALLIDAY, J. A. et al. Feasibility and acceptability of e-learning to upskill diabetes educators in supporting people experiencing diabetes distress: a pilot randomised controlled trial. <b>BMC Medical Education</b> , Londres, v. 22, n. 1, p. 768, Nov. 2022. DOI: 10.1186/s12909-022-03821-w.	I, II	General aspects Design Evaluation	Diabetes/Nursing (nurses or nursing assistants)
N3	2022	ALBERTO, J. et al. Educational innovation to integrate cancer survivorship in primary care: course evaluation and learner outcomes. <b>Journal of Cancer Survivorship</b> , Nova York, v. 16, n. 1, p. 24-32, Feb. 2022. DOI: 10.1007/s11764-021-01131-6.	I, II, III	General aspects Design Educational	Oncology/Medical, Primary care, Medical oncologist
N4	2022	SHEN, B. et al. Development and evaluation of an online training program based on the O-AMAS teaching model for community pharmacists in the post-COVID-19 era. <b>Frontiers in Public Health</b> , Lausanne, v. 10, p. 906504, sep. DOI: 10.3389/fpubh.2022.906504.	I, II	General aspects Design Evaluation; Educational	Pharmacy - Practical pharmacy skills, Management and drug therapy of chronic diseases, Drug treatment of infectious diseases, Rational use of medicines in special populations/ Pharmacist

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N5	2022	LISTOVSKY, G. M. et al. The Pan American Health Organization's Virtual Campus for Public Health as a technical cooperation strategy. <b>Revista Panamericana de Salud Publica</b> , Washington, v. 46, p. e133, 2022. DOI: 10.26633/RPSP.2022.133. Disponível em: <a href="https://iris.paho.org/bitstream/handle/10665.2/56477/v46e1332022.pdf?sequence=1&amp;isAllowed=y">https://iris.paho.org/bitstream/handle/10665.2/56477/v46e1332022.pdf?sequence=1&amp;isAllowed=y</a> . Acesso em: 23 ago. 2023.	I	Institutional Educational Actors: Teachers	Determinants of health and health promotion throughout the life cycle/ Nursing (nurses or nursing assistants), Pharmacist, Doctor
N6	2021	SHALLCROSS, M. L. et al. A Mixed-methods evaluation of clinician education modules on reducing surgical opioid prescribing. <b>The Journal of Surgical Research</b> , Philadelphia, v. 257, p. 1-8, Jan 2021. DOI: 10.1016/j.jss.2020.07.009.	I, III	General aspects	Prescription of opioids/ Nursing (nurses or nursing assistants), Pharmacist, Doctor, General surgery prescriber
N7	2021	BRANDS, B. et al. Global e-learning in early nutrition and lifestyle for international healthcare professionals: design and evaluation of the Early Nutrition Specialist Programme (ENS). <b>Nutrients</b> , Basel, v. 13, n. 3, p. 775, Feb. 2021. DOI: 10.3390/nu13030775.	I, II	General Institutional Technological Design Educational	Child nutrition/ Nursing (nurses or nursing assistants), Physician, General Practitioner, Pediatrician, Nutritionist
N8	2021	LALLOO, C. et al. Pediatric Project ECHO®: a virtual community of practice to improve palliative care knowledge and self-efficacy among interprofessional health care providers. <b>Journal of Palliative Medicine</b> , Larchmont, v. 24, n. 7, p. 1036-1044, July. 2021. DOI: 10.1089/jpm.2020.0496.	I, II	General aspects Education	Palliative Care, Pediatrics/ Social Worker, Nursing (nurses or nursing assistants), Pharmacist, Physician, Pediatrician, Psychologist, Rehabilitation Therapist
N9	2021	STARK, C. M. et al. Building capacity of health professionals in low- and middle-income countries through online continuing professional development in nutrition. <b>The Journal of Continuing Education in the Health Professions</b> , Nova York, v. 41, n. 1, p. 63-69, Jan. 2021. DOI: 10.1097/CEH.0000000000000334.	I, II, III	General Institutional Technological Educational	Nutrition in public health/Health professionals
N10	2021	TSUCHIYA, M. et al. Evaluation of a web-based educational programme for pharmacists during the COVID-19 pandemic in Japan. <b>Journal of Clinical Pharmacy and Therapeutics</b> , Oxford, v. 46, n. 6, p. 1743-1749, Dec. 2021. DOI: 10.1111/jcpt.13526.	I, II	General Aspects Technological Educational	Oncology, Pharmacy/ Pharmacist
N11	2021	FINDYARTINI, A. et al. Supporting newly graduated medical doctors in managing COVID-19: an evaluation of a massive open online course in a limited-resource setting. <b>PLoS One</b> , San Francisco, v. 16, n. 9, p. e0257039, Sep. 2021. DOI: 10.1371/journal.pone.0257039.	I, II	General Institutional Technological Design Evaluation Educational	Managing COVID-19/ Medical

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N12	2020	KOLCU, M. İ. B.; ÖZTÜRKÇÜ, Ö. S. K.; KAKI, G. D. Evaluation of a distance education course using the 4c-id model for continuing endodontics education. <b>Journal of Dental Education</b> , Washington, v. 84, n. 1, p. 62-71, Jan. 2020. DOI: 10.21815/JDE.019.138.	I, II	Design Evaluation Education	Endontics/Dentist
N13	2020	FERNANDES, R. A. M. L. <i>et al.</i> Development, implementation and evaluation of a management specialization course in oncology using blended learning. <b>BMC Medical Education</b> , Londres, v. 20, n. 1, p. 37, Feb. 2020. DOI: 10.1186/s12909-020-1957-4.	I, II, III	General Aspects Education Actors/Tutors	Oncology/ Nursing (nurses or nursing assistants), Pharmacist, Physiotherapist, Physician, Oncologist, Psychologist
N14	2020	ARAGONES, E. <i>et al.</i> Curso de formación online para la implementación de un nuevo modelo de atención a la depresión en atención primaria. <b>FEM Revista de la Fundación Educación Médica</b> , Barcelona, v. 23, n. 3, p. 121-127, Jun. 2020. Disponível em: <a href="https://scielo.isciii.es/pdf/fem/v23n3/2014-9832-fem-23-3-121.pdf">https://scielo.isciii.es/pdf/fem/v23n3/2014-9832-fem-23-3-121.pdf</a> . Acesso em: 22 ago. 2023.	I, III, IV	General Institutional Design Evaluation Educational Actors/Teachers	Depression/ Nursing (nurses or nursing assistants), Doctor, Family doctor, Psychiatrist, Psychologist
N15	2020	XIBERTA, P. <i>et al.</i> Introducing online continuing education in radiology for general practitioners. <b>Journal of Medical Systems</b> , Nova York, v. 44, n. 3, p. 55, Mar. 2020. DOI: 10.1007/s10916-019-1499-7.	I, II, III	General Aspects Technological Design Educational	Chest radiology/ Doctor, General practitioner, Resi- dent doctor
N16	2019	JOUANJUS, E. <i>et al.</i> Teaching basic knowledge on substance use disorders: the impact of e-learning on health professionals. <b>Clinical Therapeutics</b> , Princeton, v. 41, n. 10, p. 2154-2161, Oct. 2019. DOI: 10.1016/j.clinthera.2019.07.012.	I, II,	Design Evaluation Education	Substance Use Disorders/ Health professional
N17	2019	INMACULADA, F. J. <i>et al.</i> Quality management in distance education. The case of a master's degree course in health management. <b>Revista Cubana de Educación Médica Superior</b> , Habana, v. 33, n. 2, p. e1527, Jun. 2019. Disponível em: <a href="https://www.medigraphic.com/pdfs/educacion/cem-2019/cem192b.pdf">https://www.medigraphic.com/pdfs/educacion/cem-2019/cem192b.pdf</a> . Acesso em: 22 ago. 2023.	I	General Aspects Technological Design Evaluation Actors/Tutors	Health management/ Health management master's degree professional
N18	2019	LEUNG, Y. W. <i>et al.</i> Addressing educational needs in managing complex pain in cancer populations: evaluation of APAM: an online educational intervention for nurses. <b>The American Journal of Hospice &amp; Palliative Care</b> , Thousand Oaks, v. 36, n. 7, p. 587-597, Feb. 2019. DOI: 10.1177/1049909119832819.	I, II,	Institutional Technology Design Educational Actors/Teachers Actors/Tutors	Oncology, Pain management / Nursing (nurses or nursing assistants)
N19	2019	MOREIRA, I. C. <i>et al.</i> Learner's perception, knowledge and behaviour assessment within a breast imaging E-Learning course for radiographers. <b>European Journal of Radiology</b> , Limerick, v. 111, p. 47-55, Feb. 2019. DOI: 10.1016/j.ejrad.2018.12.006.	I, II, III	General aspects Education	Oncology, Breast Cancer / Doctor, Radiologist, Radiology Technician

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N20	2019	WALKER, R. et.al. Evaluating online continuing professional development regarding weight management for pregnancy using the New World Kirkpatrick Model. <b>The Journal of Continuing Education in the Health Professions</b> , Nova York, v. 39, n. 3, p. 210-217, Jul.2019. DOI: 10.1097/CEH.0000000000000261.	I, II,	General aspects Education	Prenatal Care Nursing (nurses or nursing assistants), Nutritionist, Health professional
N21	2018	ORTEGA, J. et al. Developing nurse leaders across the Americas: evaluation of an online nursing leadership course. <b>Revista Panamericana de Salud Publica</b> , Washington, v. 42, p. e152, Nov. 2018. DOI: 10.26633/RPSP.2018.152.	I, II	General aspects Ethics Evaluation Educational	Leadership in nursing/ Nursing (nurses or nursing assistants)
N22	2018	VAYSSE, C. et al. The Impact of a small private online course as a new approach to teaching oncology: development and evaluation. <b>JMIR Medical Education</b> , Toronto, v. 4, n. 1, p. e6, Mar.2018. DOI: 10.2196/mededu.9185.	I, II	General Aspects Technological Design Educational	Oncology/Nursing (nurses or nursing assistants), Pharmacist, Doctor, Health professional
N23	2018	SANTOS, C. M. et al. Avaliação da qualidade de aprendizagem no ambiente virtual (Moodle) em saúde bucal, na perspectiva dos discentes. <b>Revista Da ABENO</b> , [s.l.], v. 18, n. 1, p. 116-123, Mar. 2018. DOI: 10.30979/rev.abeno.v18i1. Disponível em: <a href="https://revabeno.emnuvens.com.br/revabeno/article/view/433">https://revabeno.emnuvens.com.br/revabeno/article/view/433</a> . Acesso em: 22 jul. 2023.	I	Educacional/ Students/ Tutors	Oral health/ Dentist

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N24	2018	PEREIRA, L. A.; SENA, R. R.; SILVA, K. L. Avaliação dos participantes dos cursos do canal Minas saúde: reflexão para mudar. <b>Revista de APS</b> , Juiz de Fora, v. 21, n. 2, p. 182-196, Dec. 2018. DOI: 10.34019/1809-8363.2018.v21.15588. Disponível em: <a href="http://ojs2.ufjf.emnuvens.com.br/aps/article/view/15588/8177">http://ojs2.ufjf.emnuvens.com.br/aps/article/view/15588/8177</a> . Acesso em: 22 jun. 2023.	I	Design Educational Actors/ Tutors	Primary Health Care: Basic Health Surveillance Actions; Breastfeeding in the Network; Assistance to the stoma patient; Comprehensive Health Care for the Elderly; Strategies  Nutrition for Health Promotion: Cultivate, Nourish and Educate; Fundamentals of Adolescent Health Care; Training in Hypertension, Diabetes and Chronic Kidney Disease; Humanizing SUS; Introduction to Homeopathy; Introduction to Integrative and Complementary Practices; New Look at Mental Health; Organization of Work Processes in Primary Care; Prevention on the Agenda; Reorganization of Oral Health Care; Travessia Saúde / Primary Care Professionals
N25	2017	MARIN, M. J. S. et al. Educação permanente: avanços de uma especialização em Saúde da Família na modalidade a distância. <b>Revista Eletrônica De Comunicação, Informação &amp; Inovação Em Saúde</b> , Rio de Janeiro, v. 11, n. 4, p. 1-12, Dez. 2017. DOI: 10.29397/reciis.v11i4.1262. Disponível em: <a href="https://www.reciis.icict.fiocruz.br/index.php/reciis/article/view/1262/2191">https://www.reciis.icict.fiocruz.br/index.php/reciis/article/view/1262/2191</a> . Acesso em: 22 jun. 2023.	I	General aspects Design Educational	Family Health Strategy/ Dentist, Nursing (nurses or nursing assistants), Doctor
N26	2017	MEDINA-PRESENTADO, J. C. et al. Online continuing interprofessional education on hospital-acquired infections for Latin America. <b>Brazilian Journal of Infectious Diseases</b> , Salvador, v. 21, n. 2, p. 140-147, Mar. . DOI: 10.1016/j.bjid.2016.11.003.	I, II, III	General Aspects Technological Evaluation Educational	Hospital Infection/ Physician, Infectious Diseases Physician, Microbiologist

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N27	2017	CABRAL, V. K. et al. Distance learning course for healthcare professionals: continuing education in tuberculosis. <b>Telemedicine Journal and e-Health</b> , Larchmont, v. 23, n. 12, p. 996-1001, Jul. 2017. DOI: 10.1089/tmj.2017.0033.	I, II,	General aspects Institutional Institutional Ethics Educational Educational Teachers	Tuberculosis/ Nursing (nurses or nursing assistants)
N28	2016	FARRELL, B. et al. Participation in online continuing education. <b>The International Journal of Pharmacy Practice</b> , Londres, v. 24, n. 1, p. 60-71, Feb. 2016. DOI: 10.1111/ijpp.12202.	I, II, III	General Aspects Technological Design Educational	Pharmacological treatment/ Pharmaceutical
N29	2016	OBRELI-NETO, P. R. et al. Evaluation of the effectiveness of an Internet-based continuing education program on pharmacy-based minor ailment management: a randomized controlled clinical trial. <b>Brazilian Journal of Pharmaceutical Sciences</b> , São Paulo, v. 52, n. 1, p. 15-26, Jan. 2016. Disponível em: <a href="https://www.scielo.br/j/bjps/a/NcKQ6TQnLLTVL9y5Bk4DFQL/?format=pdf&amp;lang=en">https://www.scielo.br/j/bjps/a/NcKQ6TQnLLTVL9y5Bk4DFQL/?format=pdf&amp;lang=en</a> . Acesso em: 13 nov. 2022.	I, II, III	General Aspects Technological Design Evaluation Educational	Pharmacy - Clinical management of community pharmacy services/ Pharmacist
N30	2015	LOCKMAN-SAMKOWIAK, J. et al. Evaluating an educational module on home inotrope therapy. <b>Journal of Infusion Nursing</b> , Hagerstown, v. 38, n. 4, p. 269-276, Jul. 2015. DOI: 10.1097/NAN.000000000000109	I, II	Design Educational Professionals / Students	Home Inotropic Therapy / Nursing (nurses or nursing assistants)
N31	2015	SOUZA, G. C. et al. Avaliação do curso de gerenciamento online na perspectiva dos egressos. <b>Revista da Escola de Enfermagem da USP</b> , São Paulo, v. 49, n. 2, p. 90-97, Dez. 2015. DOI: 10.1590/S0080-623420150000800013. Disponível em <a href="http://www.revenf.bvs.br/scielo.php?script=sci_arttext&amp;pid=S0080-62342015000800090&amp;lng=pt&amp;nrm=iso">http://www.revenf.bvs.br/scielo.php?script=sci_arttext&amp;pid=S0080-62342015000800090&amp;lng=pt&amp;nrm=iso</a> . Acesso em: 13 nov. 2022	I	General aspects Design Educational	Nursing management/ Nursing (nurses or nursing assistants)
N32	2014	BROWN, M.; BULLOCK, A. Evaluating PLATO: postgraduate teaching and learning online. <b>The Clinical Teacher</b> , Oxford, v. 11, n. 1, p. 10-14, Feb. 2014. DOI: 10.1111/tct.12052.	I	General Aspects Technological Educational Actors/Students	e-Induction; fetal cardiac monitoring CTG; Prospective General Practitioner Instructor Course/ Nursing (nurses or nursing assistants), Doctor, General practitioner, Educational supervisor
N33	2014	BUNDY, D. G. et al. Education in Quality Improvement for Pediatric Practice: an online program to teach clinicians QI. <b>Academic Pediatrics</b> , Nova York, v. 14, n. 5, p. 517-525, Sep. 2014. DOI: 10.1016/j.acap.2014.05.008	I, II, III	General aspects Education	Asthma, Gastroesophageal reflux disease, Immunizations/ Nursing (nurses or nursing assistants), Physician, Pediatrician

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N34	2014	BUXTON, E. C. Pharmacists' perception of synchronous versus asynchronous distance learning for continuing education programs. <b>American Journal of Pharmaceutical Education</b> , Nova York, v. 78, n. 1, p. 8, Feb. 2014. DOI: 10.5688/ajpe7818.	I, III	General Aspects Technological Design Actors/Students Actors/Teachers	Pharmacological treatment/ Pharmaceutical
N35	2014	HSU, T. C. <i>et al.</i> Using the ADDIE model to develop online continuing education courses on caring for nurses in Taiwan. <b>Journal of Continuing Education in Nursing</b> , Nova Jersey, v. 45, n. 3, p. 124-131, Mar. 2014. DOI: 10.3928/00220124-20140219-04.	I,II, IV	General Aspects Design Evaluation Educational	Nursing Care/ Nursing (nurses or nursing assistants)
N36	2014	HOUWINK, E. J. <i>et al.</i> Sustained effects of online genetics education: a randomized controlled trial on oncogenetics. <b>European Journal of Human Genetics</b> , Basel, v. 22, n. 3, p. 310-316, Aug. 2014. DOI: 10.1038/ejhg.2013.163, 2014.	I, II, III	General Aspects Evaluation Educational	Oncology/ Physician, Family doctor
N37	2013	WILSON, L. L. <i>et al.</i> Enhancing research capacity for global health: evaluation of a distance-based program for international study coordinators. <b>The Journal of Continuing Education in the Health Professions</b> , Nova York, v. 33, n. 1, p. 67-75, Winter 2013. DOI: 10.1002/chp.21167.	I, II, IV	General Aspects Technological Design Educational	Clinical coordination/ Clinical coordinator, Nursing (nurses or nursing assistants), Doctor, Health professional
N38	2013	KULATUNGA, G. G. <i>et al.</i> Development and implementation of a web-based continuing professional development (CPD) programme on medical genetics. <b>Journal of Telemedicine and Telecare</b> , Londres, v. 19, n. 7, p. 388-392, Nov. 2013. DOI: 10.1177/1357633X13506525.	I, II	General Aspects Technological Design Educational	Genetics/ Medical
N39	2012	CHANG, L. W. <i>et al.</i> Evaluation of a multimodal, distance learning HIV management course for clinical care providers in India. <b>Journal of the International Association of Physicians AIDS Care</b> , Chicago, v. 11, n. 5, p. 277-282, Oct. 2012. DOI: 10.1177/1545109712451330.	I, II, III	General Aspects	HIV/ Physician, Health professional
N40	2012	SOUZA, N. V. D. O. Avaliar para melhorar: perspectiva de discentes na avaliação do curso de extensão sobre estomias. <b>Revista de Enfermagem da UERJ</b> , Rio de Janeiro, v. 20, n. 2, p. 235-241, Oct. 2012. Disponível em: <a href="http://www.e-publicacoes.uerj.br/index.php/enfermagemuerj/article/view/4071/2863">http://www.e-publicacoes.uerj.br/index.php/enfermagemuerj/article/view/4071/2863</a> . Acesso em: 25 jun. 2023.	I	General Institutional Educational Actors/Teachers	Stoma/Nursing (nurses or nursing assistants)
N41	2011	PELAYO, M. <i>et al.</i> Effects of online palliative care training on knowledge, attitude and satisfaction of primary care physicians. <b>BMC Family Practice</b> , London, v. 12, p. 37, May. 2011. DOI: 10.1186/1471-2296-12-37	I,II, III	General Aspects Technological Educational Educational Actors/Tutors	Palliative Care/ Physician, Primary Care Physician
N42	2011	RAMANATHAN, R. <i>et al.</i> Mixed methods evaluation of an international internet-based continuing medical education course for pediatric HIV providers in Pune, India. <b>Education for Health</b> , Abingdon, v. 24, n. 1, p. 540, Apr. 2011. PMID: 21710424	I, II	General aspects Design Educational	HIV/ Physician, Dermatologist, Homeopath, Pediatrician



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N43	2010	CURRAN, V. R.; FLEET, L. J.; KIRBY, F. A comparative evaluation of the effect of Internet-based CME delivery format on satisfaction, knowledge and confidence. <b>BMC Medical Education</b> , Londres, v. 10, p. 10, Jan. 2010. DOI: 10.1186/1472-6920-10-10	I, II, III	General aspects Design Educational	Emergency Medicine/ Medical
N44	2010	LE, T. T. <i>et al.</i> A randomized controlled trial to evaluate the effectiveness of a distance asthma learning program for pediatricians. <b>Journal of Asthma</b> , Londres, v. 47, n. 3, p. 245-250, Apr. 2010. DOI: 10.3109/02770900903560209	I, II, III	General aspects Education	Asthma/ Doctor, Pediatrician
N45	2009	Horiuchi S, Yaju Y, Koyo M, Sakyo Y, Nakayama K. Evaluation of a web-based graduate continuing nursing education program in Japan: A randomized controlled trial. <b>Nurse Education Today</b> , Edinburg, v. 29, n. 2, p. 140-149, Feb. 2009. DOI: 10.1016/j.nedt.2008.08.009.	I, II	General Aspects Education Actors/Tutors	Evidence-based medicine/ Nursing (nurses or nursing assistants), Midwifery
N46	2008	BACHMAN, J. A.; HSUEH, K. H. Evaluation of online education about diabetes management in the school setting. <b>The Journal of School Nursing</b> , Thousand Oaks, v. 24, n. 3, p. 151-157 Jun. 2008. DOI: 10.1177/1059840533445566.	I,II	General Institutional Design Educational	Diabetes, Childhood Diabetes/ Nursing (nurses or nursing assistants)
N47	2008	KEMPER, K. J. <i>et al.</i> Enhancing communication skills for pediatric visits through on-line training using video demonstrations. <b>BMC Medical Education</b> . Londres, v. 8, p. 8, Feb. 2008. DOI: 10.1186/1472-6920-8-8.	I, III	General Aspects Technological Design Educational	Communication, Consultation, Pediatrics/ Social worker, Doctor, Psychologist
N48	2008	QUELHAS, M. C. F.; LOPES, M. H. B.; ROPOLI, E. A. Educação à distância em processos de esterilização de materiais. <b>Revista da Escola de Enfermagem da USP</b> , São Paulo, v. 42, n. 4, p. 697-705, Dez. 2008. DOI: 10.1590/s0080-62342008000400012	I, II	General aspects Educational Educational Actors/Teachers	Sterilization of materials/ Nursing (nurses or nursing assistants)
N49	2008	DUNET, D. O. Using evaluation to guide successful development of an online training course for healthcare professionals. <b>Journal of Public Health Management Practice</b> , Hangerstown, v. 14, n. 1, p. 66-75, Jan.2008. DOI: 10.1097/01.PHH.0000303416.04604.e3.	I, II, III	General aspects Design Educational	Hemochromatosis Nursing (nurses or nursing assistants)
N50	2008	ERSEK, M.; WOOD, B. B. Development and evaluation of a Nursing Assistant Computerized Education Programme. <b>International Journal of Palliative Nursing</b> , Londres, v. 14, n. 10, p. 502-509, Oct. 2008. DOI: 10.12968/ijpn.2008.14.10.31495.	I, II, III	General aspects Design Educational	Palliative Care/ Nursing (nurses or nursing assistants)
N51	2008	SEARS, K. E.; COHEN, J. E.; DROPE, J. Comprehensive evaluation of an online tobacco control continuing education course in Canada. <b>The Journal of Continuing Education in the Health Professions</b> , Nova York, v. 28, n. 4, p. 235-240, Fall2008. DOI: 10.1002/chp.190.	I, II, III, IV	General aspects Design Educational	Smoking control/ Health professional

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N52	2007	DAVIES, K.; HANNIGAN, C. Supporting disaster healthcare professionals: a practical and virtual approach. <b>Nurse Education Today</b> , Edinburgh, v. 27, n. 2, p. 122-130, Feb.2007. DOI: 10.1016/j.nedt.2006.03.005.	I	General Institutional Design Ethics Evaluation Actors/Teachers	Assistance and protection in disasters / Nursing (nurses or nursing assistants)
N53	2007	IRVING, M. J.; IRVING, R. J.; SUTHERLAND, S. Graseby MS16A and MS26 syringe drivers: reported effectiveness of an online learning programme. <b>International Journal of Palliative Nursing</b> , Londres, v. 13, n. 2, p. 56, 58-62, Feb.2007. DOI: 10.12968/ijpn.2007.13.2.23070.	I, III	General aspects Design Evaluation Educational	Palliative Care, Syringes / Nursing (nurses or nursing assistants)
N54	2007	WALLNER, S. <i>et al.</i> Online continuing education course enhances nutrition and health professionals' knowledge of food safety issues of high-risk populations. <b>Journal of the American Dietetics Association</b> , Chicago, v. 107, n. 8, p. 1333-1338, Aug.2007. DOI: 10.1016/j.jada.2007.05.014.	I,II, III	General aspects Design Evaluation Educational	Food safety/ Nutritionist
N55	2006	LIN, I. C.; CHIEN, Y; M.; CHANG, I. C. Quality evaluation on an e-learning system in continuing professional education of nurses. <b>Studies in Health Technology and Informatics</b> , Amsterdam, v. 122, p. 220-224, 2006. PMID: 17102252	I	Technology Design Educational	Nursing/Nursing (nurses or nursing assistants)
N56	2005	JERIN, J. M.; REA, T. D. Web-based training for EMT continuing education. <b>Prehospital Emergency Care</b> , Philadelphia, v. 9, n. 3, p. 333-337, Mar.2005. DOI: 10.1080/10903120590962274.	I	General aspects Design Evaluation Educational	Emergency medical service / Doctor, Paramedic
N57	2005	OLSON, D.; STEDMAN-SMITH, M.; FREDRICKSON A. Environmental health and nursing: piloting a technology-enhanced distance learning module. <b>AAOHN Journal</b> , Thorofare, v. 53, n. 8, p 353-359, Aug.2005. PMID. 16122139	I,II	General aspects Education	Environmental health/ Nursing (nurses or nursing assistants)
N58	2004	SHADE, S. D.; BARBER, G. M. When and where you want it: continuing education from a distance. <b>Gerontology &amp; Geriatrics Education</b> , Nova York, v. 24, n. 4, p. 95-114, 2004. DOI: 10.1300/J021v24n04_07	I, III	General aspects Educational Educational Actors/Tutors	Geriatrics/ Health professional
N59	2004	WILKINSON, A. <i>et al.</i> An exploration of four web-based open and flexible learning modules in post-registration nurse education. <b>International Journal of Nursing Studies</b> , Oxford, v. 41, n. 4 p. 411-424, May.2004. DOI: 10.1016/j.ijnurstu.2003.11.001.	I, II, III	General aspects Design Educational Educational Actors/Tutors	Primary Health Care, Dermatology, Diabetes, Mentoring/ Nursing (nurses or nursing assistants)
N60	2003	BERNHARDT, J. M. <i>et al.</i> Implementation and evaluation of a Web-based continuing education course in injury prevention and control. <b>Health Promotion Practice</b> , Thousand Oaks, v. 4, n. 2, p. 120-128, Apr.2003. DOI: 10.1177/1524839902250758.	I, II	General Aspects Technological Design Educational	Injury prevention and control/ Health educator, Infectious disease physician, Clinical healthcare professional, Emergency services worker

NRO	Year	Reference	Level Kirkpatrick	Evaluation Category (CA)	Educational Action Theme/ Target Audience
N61	2002	LUND, A.; LAM, K.; PARKS, P. Disaster Medicine Online: evaluation of an online, modular, interactive, asynchronous curriculum. <b>CJEM. Canadian Journal of Emergency Medical Care</b> , Ottawa v. 4, n. 6, p. 408-413, Nov.2002. DOI: 10.1017/s1481803500007910	I,II	General Aspects Technological Design Educational	Assistance and protection in disasters, Disaster medicine/assistance and protection in disasters/Nursing (nurses or nursing assistants), Physician, Physician assistant, Physician resident, Paramedic
N62	2002	SPALLEK H. <i>et al.</i> Evaluation of web-based dental CE courses. <b>Journal of Dental Education</b> , Washington, v. 66, n. 3, p. 393-404, Mar. 2002. PMID. 11936230.	I,II	General aspects Educational Educational Actors/Tutors	Dentistry/ Dentist
N63	2001	DIXON, H.; HORDERN, A.; BORLAND, R. The Breast Cancer Distance Education Program: development and evaluation of a course for specialist breast care nurses. <b>Cancer Nursing</b> . Nova York, v. 24, n. 1, p. 44-52, Feb 2001. DOI: 10.1097/00002820-200102000-00008.	I, II, III	General Institutional Educational Educational Actors/Students Actors/Tutors	Oncology; Breast Cancer/ Nursing (nurses or nursing assistants)
N64	2001	SIGULEM, D. M. <i>et al.</i> A Web-based distance education course in nutrition in public health: case study. <b>Journal of Medical Internet Research</b> , Pittsburg, v. 3 n 2, p. E16, Apr. 2001. DOI: 10.2196/jmir.3.2.e16.	I, II	General aspects Design Evaluation Educational	Nutrition, Nutrition in public health/ Public Health Professional; Nutritionist; Doctor
N65	2000	MCLACHLAN-SMITH, C. J.; TRACEY, J. M. Learning by distance for general practitioners: students' experiences of Goodfellow Unit diplomas. <b>The New Zealand Medical Journal</b> , Wellington, v. 113, n. 1110, p. 187-189, May.2000.	I	General Aspects Technological Design Educational Education Actors/Students	Primary Health Care / Doctor
N66	2000	FRANCIS, B. <i>et al.</i> Assessment of online continuing dental education in North Carolina. <b>The Journal of Continuing Education in the Health Professions</b> , Nova York, v. 20, n, 2, p. 76-84, 2000. DOI: 10.1002/chp.1340200203.	I, II, III	General Aspects Technological Design Educational	Dental radiology/ Dentist

Fonte: Dos autores (2024).