

Supplemental Digital Appendix 1

Complete List of the 39 Articles Included in the Scoping Review

No	Authors	Year	Title	Source
1	Douglas Archibald, Joseph K. Burns, Michael Fitzgerald & Véronique French Merkley	2020	Aligning Practice Data and Institution-specific CPD: Medical Quality Management as the Driver for an eLearning Development Process	Journal of European CME; 9:1, 1754120.
2	Jonathan Bergman, Eric Ballon-Landa, Steven E Lerman, Lorna Kwan, Carol J Bennett, Mark S Litwin	2016	Engaging Physician Learners Through a Web-Based Platform: Individualized End-of-Life Education	Am J Hosp Palliat Care; 33(8):748-54.
3	Marianne Bittle, Kathleen O'Rourke, and Sindhu K. Srinivas	2018	Interdisciplinary Skills Review Program to Improve Team Responses During Postpartum Hemorrhage	J Obstet Gynecol Neonatal Nurs; 47(2):254-263.
4	Kimberly Blom, Ana-Maria Iancu, Rachel Tyli, Tess Coppinger, Melissa Tai, Kit Shan Lee	2021	Assessing the Effect of E-Learning on Perineal Repair Knowledge and Skill Acquisition	PRIMER; 6, 11.
5	Risa Bordman, Jana Bajcar, Natalie Kennie, Lisa Fernandes, Karl Iglar	2013	Curriculum to enhance pharmacotherapeutic knowledge in family medicine	Can Fam Physician; 59(11):e493-8.
6	Natalie H Chan, Niraj Mistry, Douglas M Campbell	2019	A Simulation-Based Pilot Study of a Mobile Application (NRP Prompt) as a Cognitive Aid for Neonatal Resuscitation Training	Simul Healthc; 14(3):146-156.

7	David A Cook, Warren G Thompson, Kris G Thomas	2014	Test-Enhanced Web-Based Learning: Optimizing the Number of Questions (a Randomized Crossover Trial)	Acad Med; 89(1):169-75.
8	Amy Dawson, Kelly Mullen, Isaac A Janson, Brian Henriksen, Natalie Duncan, Dennis O'Brien, Emily R Meier	2022	A Feasibility Pilot Study of Online Modules of Hydroxyurea and Sickle Cell Disease Care for Adolescents and Young Adults for Family Medicine Residents	J Pediatr Hematol Oncol; 44(2):e313-e318.
9	Karen Detering, William Silvester, Charlie Corke, Sharyn Milnes, Rachael Fullam, Virginia Lewis and Jodie Renton	2014	Teaching general practitioners and doctors-in-training to discuss advance care planning: evaluation of a brief multimodality education programme	BMJ Supportive & Palliative Care; 4:313-321.
10	Leandro Arthur Diehl, Rodrigo Martins de Souza, Pedro Alejandro Gordan, Roberto Zonato Esteves, Izabel Cristina Meister Coelho	2015	User Assessment of "InsuOnLine," a Game to Fight Clinical Inertia in Diabetes: A Pilot Study	Games Health J; 4(5):335-43.
11	Maxime Dion, Ndeye Thiab Diouf, Hubert Robitaille, Stéphane Turcotte, Rhéda Adekpedjou, Michel Labrecque, Michel Cauchon, France Légaré	2016	Teaching Shared Decision Making to Family Medicine Residents: A Descriptive Study of a Web-Based Tutorial	JMIR Med Educ; 2(2):e17.
12	Juan Antonio Garcia-Rodriguez, Tyrone Donnon	2016	Using Comprehensive Video-Module Instruction as an Alternative Approach for Teaching IUD Insertion	Fam Med; 48(1):15-20.
13	M Gaudin, G Tanguy, M Plagne, A Saussac, Y Hansmann, B Jaulhac, M Kelly, L Ouchchane, O Lesens; expert group	2022	E-learning versus face-to-face training: Comparison of two learning methods for Lyme borreliosis	Infect Dis Now; 52(1):18-22.

	for the teaching of Lyme disease			
14	Rachel Giesey, Doria Narively, Eliot Mostow, Chanda Mullen	2018	DERM: A Four-Step Dermatology Education Digital Tool Kit for Nondermatologists	Fam Med; 50(7):539-543.
15	Julie Hadley, Regina Kulier, Javier Zamora, Sjors F P J Coppus, Susanne Weinbrenner, Berit Meyerrose, Tamas Decsi, Andrea R Horvath, Eva Nagy, Jose I Emparanza, Theodoros N Arvanitis, Amanda Burls, Juan B Cabello, Marcin Kaczor, Gianni Zanrei, Karen Pierer, Regina Kunz, Veronica Wilkie, David Wall, Ben Wj Mol, Khalid S Khan	2010	Effectiveness of an e-learning course in evidence-based medicine for foundation (internship) training	J R Soc Med; 103(7):288-94.
16	Emilie Jouanjus, Maryse Lapeyre-Mestre, Matthieu Nodot, Anne Roussin, Nicolas Franchitto, Jean-Paul Boyes, Nathalie Nasr, Stéphane Oustric, Julie Dupouy	2019	Teaching Basic Knowledge on Substance Use Disorders: The Impact of e-Learning on Health Professionals	Clin Ther; 41(10):2154-2161.
17	Paul N Lanken, Dennis H Novack, Christof Daetwyler, Robert Gallop, J Richard Landis, Jennifer Lapin, Geetha A Subramaniam, Barbara A Schindler	2015	Efficacy of an Internet-Based Learning Module and Small-Group Debriefing on Trainees' Attitudes and Communication Skills Toward Patients With Substance Use Disorders: Results of a Cluster Randomized Controlled Trial	Acad Med; 90(3):345-54.
18	Patricia Lebensohn, Benjamin Kligler, Sally Dodds, Craig	2012	Integrative Medicine in Residency Education: Developing Competency	J Grad Med Educ; 4(1):76-82.

	Schneider, Selma Sroka, Rita Benn, Paula Cook, Mary Guerrero, Tieraona Low Dog, Victor Sierpina, Raymond Teets, Dael Waxman, John Woytowicz, Andrew Weil, Victoria Maizes		Through Online Curriculum Training	
19	Patricia Lebensohn, Benjamin Kligler, Audrey J Brooks, Raymond Teets, Michele Birch, Paula Cook, Victoria Maizes	2017	Integrative Medicine in Residency: Feasibility and Effectiveness of an Online Program	Fam Med; 49(7):514-521.
20	Stanley S Liu, Sammy Zakaria, Dhananjay Vaidya, Mukta C Srivastava	2017	Electrocardiogram training for residents: A curriculum based on Facebook and Twitter	J Electrocardiol; 50(5):646-651.
21	Colin Man; Cathina Nguyen; Steven Lin	2014	Effectiveness of a Smartphone App for Guiding Antidepressant Drug Selection	Fam Med; 46(8):626-30.
22	Matthew P. Martin, Elizabeth Banks, Linda Myerholtz, Max Zubatsky, Yash Suri, Larry Mauksch	2022	Preparing residents to practice integrated behavioral health care: Multi-site feasibility study of a competency-based curriculum	International Journal of Psychiatry in Medicine; 58(3): 201-213.
23	Chelsea M McGuire, Bolatito B Fatusin, Hithaishini Kodicherla, Kenneth Yakubu, Pius Ameh, Alexandra van Waes, Ethan Rhoad, Brian W Jack, Nancy A Scott	2021	Implementation of Online Research Training and Mentorship for Sub-Saharan African Family Physicians	Ann Glob Health; 87(1):13.
24	Modupe Oyewumi, Michael G Brandt, Brian Carrillo, Adelle Atkinson, Karl Iglar, Vito Forte, Paolo Campisi	2015	Objective Evaluation of Otoscopy Skills Among Family and Community Medicine, Pediatric, and Otolaryngology Residents	J Surg Educ; 73(1):129-35.
25	Barbara Pahud, S Elizabeth Williams, Brian R Lee, Kadriye O	2020	A randomized controlled trial of an online immunization curriculum	Vaccine; 38(46):7299-7307.

	Lewis, Donald B Middleton, Shannon Clark, Sharon G Humiston			
26	Ng Lai Peng, Eileen Koh Yi Ling	2021	The Role of Video-Assisted E-Learning in Intrauterine Contraceptive Device Insertion Training	PRIMER; 5:5.
27	Erica Rothlind, Uno Fors, Helena Salminen, Per Wändell, Solvig Ekblad	2021	Virtual patients reflecting the clinical reality of primary care – a useful tool to improve cultural competence	BMC Med Educ; 21(1):270.
28	Amanda Sauvé, Adriana Cappelletti, Latif Murji	2022	Stand Up for Indigenous Health: A Simulation to Educate Residents About the Social Determinants of Health Faced by Indigenous Peoples in Canada	Acad Med; 97(4):518-523.
29	Aviv Shachak, Sharon Domb, Elizabeth Borycki, Nancy Fong, Alison Skyrme, Andre Kushniruk, Shmuel Reis, Amitai Ziv	2015	A Pilot Study of Computer-Based Simulation Training for Enhancing Family Medicine Residents' Competence in Computerized Settings	Stud Health Technol Inform; 216:506-10.
30	Marianna Shershneva, Ji-Hye Kim, Cynthia Kear, Robin Heyden, Neil Heyden, Jay Lee, Suzanne Mitchell	2014	Motivational Interviewing Workshop in a Virtual World: Learning as Avatars	Fam Med;46(4):251–258.
31	Eric P Skye, Leslie A Wimsatt, Tara A Master-Hunter, Amy B Locke	2011	Developing Online Learning Modules in a Family Medicine Residency	Fam Med; 43(3):185-92.
32	John Sperl-Hillen, Patrick O'Connor, Heidi Ekstrom, William Rush, Stephen Asche, Omar Fernandes, Deepika Appana, Gerald Amundson, Paul Johnson	2013	Using Simulation Technology to Teach Diabetes Care Management Skills to Resident Physicians	J Diabetes Sci Technol; 7(5):1243–1254.
33	JoAnn Sperl-Hillen, Patrick J O'Connor,	2014	Educating Resident Physicians Using Virtual	Acad Med; 89(12):1664–1673.

	Heidi L Ekstrom, William A Rush, Stephen E Asche, Omar D Fernandes, Deepika Apana, Gerald H Amundson, Paul E Johnson, Debra M Curran		Case-Based Simulation Improves Diabetes Management: A Randomized Controlled Trial	
34	Malathi Srinivasan, Frank C Day, Erin Griffin, Daniel J Tancredi, Wylie Burke, Linda Pinsky, Roberta A Pagon, Jerome R Hoffman, Michael S Wilkes	2011	Implementation outcomes of a multiinstitutional webbased ethical, legal, and social implications genetics curriculum for primary care residents in three specialties	Genet Med;13(6):553-62.
35	Arif Tyebally and Chaoyan Dong	2021	An eLearning program to prepare residents for a rotation in pediatric emergency medicine: A qualitative study	Hong Kong Journal of Emergency Medicine; 29(6) 358–364.
36	Michelle J H Verheijden, Herm Martens, Sylvia Heeneman	2021	A dermatology E-learning programme is perceived as a valuable learning tool in postgraduate general practice training	Int J Med Educ; 12:169- 178.
37	Adrienne A Williams, Shana O Ntiri	2018	An Online, Self-Directed Curriculum of Core Research Concepts and Skills	MedEdPORTAL;14:10732.
38	Sarah Williams, Shannon Clark, Sharon Humiston, Barbara Pahud, Donald Middleton, Kadriye O Lewis	2019	Determining the Instructional Effectiveness of Online Vaccine Education Modules: A Focus-Group Analysis	MedEdPublish; 8:215.
39	Pau Xiberta, Imma Boada, Santiago Thió- Henestrosa, Pedro Ortuño, Salvador Pedraza	2020	Introducing Online Continuing Education in Radiology for General Practitioners	J Med Syst; 44(3):55.