

Perspectives: Journal of the Canadian Gerontological Nursing Association
Forthcoming Special Issue: *The Future of Gerontological Nursing: Artificial Intelligence (AI) Opportunities and Challenges*

Artificial intelligence was first discussed in 1956 at a Dartmouth workshop that aimed to open discussion on “thinking machines” (McCarthy, 2007). John McCarthy, one of the planners, has been credited with calling these machines “artificial intelligence” (McCarthy, 2007). With the advent of sophisticated computers, the internet, and a massive workforce of computer technicians, it is possible to input, collate, organize, and output vast and varied amounts of information for human consumption. Although no consensus on the definition of AI exists, it is commonly defined as “the capability of computer systems to perform tasks that typically require human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making” (IBM, n.d.). Experts might disagree on the scope of AI, but many forecast a future with next-generation AI in the form of Artificial General Intelligence (AGI), “that can understand the world and learn and apply problem-solving intelligence as broadly and flexibly as a human can,” and Artificial Superintelligence (ASI), “AI that has gone beyond human intellect and would be superior in many if not all feasible ways” (Eliot, 2025).

With the aim of promoting awareness and discussion of the benefits and challenges of AI in current and future gerontological nursing practice, education, research and policy development, and the vision of CGNA to promote excellence in gerontological nursing through leadership, knowledge and scholarship, *Perspectives* is currently inviting manuscripts related to AI for a special issue in 2027. Although not a complete list, several examples of manuscript topics are:

- AI as a means of enhancing the development of nursing science and clinical practice protocols: What are the critical considerations for gerontological nurses?
- AI as the new literacy: Are gerontological nurses adequately prepared to use this tool in their nursing practice?
- AI tools (for example, ChatGPT) have perceived benefits and challenges to the development of clinical judgment in gerontological education and clinical practice.
- AI tools that can analyze large datasets to predict the onset and progression of dementia and other chronic diseases: How might this affect the use of traditional screening tools and clinical expertise?
- Issues related to AI integrated devices which can continuously track vital signs, functional ability, sleep patterns, blood glucose and other health-related metrics which can automatically notify healthcare providers and healthcare consumers.

- AI as an interprofessional tool integrated into electronic health records to individualize care plans with older adults and streamline communication between interprofessional healthcare team members: AI as a team leader?
- AI embodied humanoid robots which can augment the workforce in understaffed personal care homes: Can an AI-based healthcare worker provide the same warmth, compassion, and “read the room” as well as its human counterpart?
- AI integrated companion platforms to combat the loneliness epidemic in older adults: What are the implications?
- Ethical and practical issues related to the use of AI in implementing care with older adults, for example, regulation, protection, and the quality of information.
- Ageism is a societal phenomenon, and it is implicit in the visual and written media that form the basis of AI output: Concerns and challenges.

We welcome manuscripts representing a wide spectrum, including academic research, community perspective, and practice expertise from healthcare and social service providers (nurses, allied health) and other disciplines with an interest in aging, nursing care and AI both within and outside of Canada. Guidelines for authors are available in *Perspectives* and on the CGNA website: www.cgna.net

Electronic Submission Deadline: November 1, 2026

Queries may be sent to the Editor-in-Chief via email: perspectives@cgna.net

References

- Eliot, L. (2025, July 9). *Future forecasting: The AGI to ASI pathway giving rise to AI superintelligence*. Forbes. <https://www.forbes.com/sites/lanceeliot/2025/07/09/future-forecasting-the-agi-to-asi-pathway-giving-rise-to-ai-superintelligence/>
- IBM. (n.d.). *Artificial intelligence and its applications*. IBM. <https://www.ibm.com/think/topics/artificial-superintelligence>
- McCarthy, J. (2007). *What is artificial intelligence?* Stanford University. <http://jmc.stanford.edu/articles/whatisai/whatisai.pdf>