Providing culturally safe cancer survivorship care with Indigenous communities: study protocol for an integrated knowledge translation study

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Abstract

Background: Cancer among Indigenous people is increasing faster than overall Canadian rates. Lack of survivorship support, including screening and follow-up for recurrences, contributes to poor health outcomes and low 5-year survival rates. Historical trauma from colonization and lack of culturally safe and responsive healthcare has negatively affected Indigenous peoples’ access to survivorship supports. Nurses are typically the sole practitioners of health services in rural and remote Indigenous communities and can enhance the development, implementation, and delivery of culturally safe survivorship supports. However, the implementation of culturally safe healthcare in Indigenous communities is not well developed. This is the third study in a larger program of research with an overarching goal to improve healthcare delivery and outcomes with Indigenous people in Canada. In this study, we will field test nurses’ implementation of cancer survivorship care with Indigenous people in Ontario, Canada.

Methods: The study is a descriptive participatory mixed methods research design involving a systematic review, field testing implementation of cancer survivorship supports in two communities, focus groups, and qualitative interviews. Outcomes include feasibility of implementation, acceptability of the strategies, and perceived impact on healing and psychosocial support.

Discussion: Results will advance knowledge about implementing culturally safe cancer survivorship supports with Indigenous people in Ontario. A toolkit will be developed to inform nursing practices, programs, and policies to improve cancer survivorship supports and strategies with Indigenous people. Findings will inform a large-scale implementation study to reduce healthcare disadvantages and disparities within Indigenous communities across Canada.

Keywords: First Nations, Inuit, and Métis health, Indigenous people, Cancer survivorship, Implementation science, Integrated knowledge translation, Mixed methods, Community-based participatory research

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Background
Cancer mortality is higher among Indigenous people in Canada relative to the general population [1–4]. Although cancer databases in Canada do not have identifiers for race or ethnicity [5], evidence is accumulating that cancer incidents rates for Indigenous people are increasing faster and cancer survival is worse [6, 7]. For example, a recent report to understand cancer prevalence in First Nations people in Ontario has shown that colorectal cancer increased 6 and 7 % respectively for male and female First Nations people, whereas the incidence stayed the same or decreased for non-Indigenous people [5]. Another report has shown that breast cancer among the general population had stabilized but continued to rise for First Nations people [7]. High comorbidities rates and lack of survivorship support such as follow-up screening and secondary prevention contribute to poor health outcomes and lower 5-year survival rates [4–6, 8]. The determinants of cancer mortality and the unique cancer burden faced by Indigenous people in Canada have largely been attributed to the social determinants of Indigenous health such as poverty, social exclusion, racism, discrimination, and lack of culturally responsive healthcare services and supports [2, 5, 9].

Consistent with international health research environments, the term “Indigenous” is used throughout this paper to denote the original inhabitant of a country regardless of its borders. In the Canadian context, Indigenous specifically refers to First Nations, Inuit, and Métis [10]. Almost 1.5 million Indigenous people were living in Canada in 2011, most densely concentrated in the province of Ontario (n = 301,425 or 21.5%) [11]. Approximately half this population live on-reserve [11], and 95 out of the 133 Indigenous communities in Ontario are located in rural or remote areas [12]. Nurses are typically the sole practitioners of healthcare services in rural and remote Indigenous communities; as “outsiders,” they often have a poor understanding of the distinct cultural practices, traditions, social and historical roots of health inequities in these settings [13–16].

Although efforts have been made to promote culturally competent care in general nursing educational curricula, nursing knowledge and practice remains largely informed by western culture. Healthcare practices based on western ethnocentric systems have led Indigenous people in Canada to avoid many healthcare services [17]. Lack of awareness and knowledge of culturally safe practices affects nurses’ abilities to implement cancer survivorship strategies and supports that effectively address Indigenous people’s distinct needs.

Through advancements in cancer survivorship care, holistic approaches with long-term follow-up, regular monitoring for early detection, and interventions tailored to specific needs have been shown to increase survival rates and enhance the quality of life for people with cancer [2]. However, interventions predominantly target white, urban, middle-class people, with little done to address the cancer survivorship needs of Indigenous people. Indigenous peoples continue to endure poorer health from a long legacy of marginalization within North America. Metaphorically referred to as “falling through the cracks” [18], little has been done to address the unique survivorship needs of Indigenous people and few supports have considered the intersections of culture, history, and marginalization.

Our research shows that many First Nations people do not seek survivorship support due to the fear of being sent away or of cancer attracting illness and grief into their communities. Moreover, a systematic review of 17 studies revealed that many Indigenous people are prevented from seeking cancer survivorship support by fatalistic attitudes, associated fears, and community stigmatization [19].

This study builds on our foundational studies which overwhelmingly identified a gap in the delivery of culturally safe cancer survivorship support for First Nations and Métis people [18, 20–24]. One of the first opportunities to voice their survivorship experiences, our first study (funded by Canadian Cancer Society), highlighted the profound failures of healthcare services to recognize the distinct ethnic, cultural, and socio-historical positioning of First Nations and Métis people. It revealed that stigmatization, fear of disclosing cancer, and culturally insensitive healthcare approaches prevent Indigenous people from receiving survivorship care, including follow-up and regular monitoring for early detection and survivorship interventions for enhancing quality of life [21, 22, 25, 26].

In our second study (funded by Canadian Institutes of Health Research #356773), we are co-developing cancer survivorship strategies in partnership with First Nation’s healthcare leaders, elders, cancer survivors, and community members, and evaluating the process of developing the strategies to support culturally safe cancer survivorship. Recognizing that each Indigenous community has unique needs, strengths, and cultural traditions, it is unclear how survivorship strategies and implementation approaches in one community will translate to other communities in Canada.

The proposed study is the third in our program of research that has the overarching goal to improve the delivery of culturally safe cancer survivorship care with Indigenous people in Canada. The research questions for this study are the following:

1) What are the cancer survivorship strategies described in the research literature that have been utilized by Indigenous people, and what are the characteristics of collaborative partnerships with
Indigenous communities for implementing the strategies identified?

2) What are the barriers and facilitators to nurses implementing cancer survivorship strategies that have been chosen and adapted for cultural safety with Indigenous community members?

3) What is the feasibility and acceptability of implementing cancer survivorship strategies that have been adapted for cultural safety with Indigenous people, and the perceived influence on healing, cancer screening, and psychosocial support?

Methods
Design
In collaboration with community partners, a participatory descriptive research design is proposed using multiple methods that include review of literature, focus groups, interviews, and process log.

Setting and collaboration
The setting involves two communities in the province of Ontario where approximately 41,000 Indigenous people live. One is a rural First Nations community, and one is an urban Inuit community that includes Inuit who have traveled from rural and remote regions of Nunavut for cancer care. Our collaborative partners include nurses, health providers, and program directors from a large urban hospital that strive to implement Cancer Care Ontario’s Aboriginal Cancer Strategy III [12] to deliver culturally relevant and safe cancer care for First Nations, Inuit, and Métis peoples.

Acknowledging that research involving Indigenous people has historically been carried out by non-Indigenous researchers and generally not reflective of Indigenous worldviews (33), we are committed to following ethical principles that recognize strong trusting relationship are integral to ethical research with Indigenous people. Our research is grounded in approaches outlined in Chapter 9 of the Tri-Council Policy Statement (33) that recognizes the importance of traditional cultural values, community engagement, and mutually respectful relationships for conducting research.

Collaboration for the study will be guided by the theoretical underpinnings of integrated knowledge translation (KT) and Indigenous knowledge translation (KT) [10]. The fundamental concept of integrated KT is that researchers and knowledge users, who are patients, practitioners, policy-makers, or members of the public, work together to design and conduct mutually beneficial research [27]. The knowledge that is co-produced through integrated KT may be more meaningful and address real-world knowledge gaps as knowledge users and communities are engaged throughout the entire research process. Indigenous KT recognizes that Indigenous people have a long and established history of creating and translating their own knowledge into actions through oral traditions, engagement, and cross-cultural sharing [28]. Culturally relevant channels of dissemination will be utilized such as kinship networks, talking circles and stories, and participation of community leaders, chiefs, elders, and community members. The continued engagement of community members in our previous study has allowed us to establish partnerships with community leaders, elders, healthcare providers, cancer survivors, and families to plan, design, conduct, and disseminate this study using a participatory, integrated Indigenous KT approach.

Procedures
Research question 1: What are the cancer survivorship strategies described in the research literature that have been utilized by Indigenous people, and what are the characteristics of collaborative implementation partnerships for implementing the strategies identified?

A mixed methods systematic review will integrate evidence from multiple research designs including experimental, quasi-experimental, and observational studies. We will conduct a narrative synthesis to generate insights for policy and practice, and develop hypotheses for future studies [29] as the majority of published research with Indigenous populations is descriptive. A four-stage approach [30] will be utilized to conduct the review.

The search strategy will be shaped by the review question and developed with a health sciences librarian with expertise in systematic reviews. A mix of controlled terminology (MeSH headings) and keywords will be used to capture concepts of engagement, implementation, nurses, healthcare providers, and Indigenous people. No limits will be applied to publication date. Databases will include MEDLINE, CINAHL, Cochrane, Proquest Nursing and Allied Health, ProQuest Dissertations and Theses, ABI Inform Global, and PsycINFO. Studies included in the review will have nurses and other healthcare providers (allied and/or physicians) and a study outcome of cancer survivorship strategies that have been implemented by or in partnership with Indigenous people. Data will be extracted by one reviewer and checked for accuracy by a second; discrepancies resolved through third-party adjudication. Methodological quality of studies will be assessed using specific study design tools (e.g., McMaster Critical Review Form for qualitative research). Data will be aggregated and analyzed narratively for patterns related to cancer survivorship strategies and the implementation process of the strategies. Although not anticipated, if sufficient homogeneity
Research question 1: How will cancer survivorship strategies be implemented for Indigenous people in Canada?

Methods will involve our Indigenous partners in all stages of the analysis, holding regular group meetings to facilitate accurate interpretation of data and iteratively co-develop themes that reflect culturally relevant community beliefs. Trustworthiness of findings will be sought through prolonged engagement with community partners and collaboratively analyzing data. Researchers will explicitly reveal their predispositions and maintain an audit trail.
and codebook to ensure transparency and dependability of the analytical process.

Data from all phases of this study will be synthesized in order to develop a toolkit for implementing cancer survivorship strategies and supports across Ontario. We anticipate overall findings to include a series of promising practices to support cancer survivorship for Indigenous people including survivorship strategies, characteristics of collaborative partnerships, adaptation and implementation processes, and barriers and facilitators to implementation. The toolkit will consist of a paper-based manual, videos (developed in previous studies), discussion points, and questions for use in different Indigenous communities across Ontario.

Discussion
This study is part of a larger program of research that explores the process of integrating Indigenous ways of knowing with western research knowledge to address the disparities in healthcare delivery and outcomes among Indigenous people in Canada. To ensure a comprehensive understanding, our team is studying the collaborative processes to translate Indigenous knowledge into culturally safe and responsive strategies and approaches. Through our partnerships, we are using a strength-based approach with people from urban, rural, and remote Indigenous communities to reorient healthcare delivery.

Results of this study will advance knowledge about implementing culturally safe cancer survivorship supports with Indigenous people to improve healthcare services, quality of life, and ultimately health outcomes. As a way forward, findings will inform a large-scale implementation study to reduce healthcare disadvantages and disparities within Indigenous communities across Canada.

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Availability of data and materials
Not applicable.

Authors’ contributions
WG and RT conceptualized and designed the study and WG secured the funding. All authors contributed to determining the methods for the protocol. WG drafted the manuscript, and all authors read and approved of the final version.

Ethics approval and consent to participate
This study has received approval from the University of Ottawa Research Ethics Board with file number H-06-18-787. Our approaches are grounded in Chapter 9 of the Tri-Council Policy Statement: Research Involving the First Nations, Inuit and Métis Peoples of Canada (23). Recognizing and respecting the importance of traditional cultural values, community engagement and mutually respectful relationships, we take guidance from this policy and from the Indigenous community partners that are collaborating with us on this research.

Consent for publication
Not applicable.

Competing interests
The authors declare that they have no competing interests.

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