

Revolutionizing a cancer care and support ecosystem in British Columbia unique to adolescents and young adults

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Globally, the incidence of cancer in adolescents and young adults (AYAs) is rising significantly and cancer care systems often fail to meet their unique life-stage needs. For many AYAs, dying from or surviving cancer is influenced by their intersecting social identities alongside health system factors, resulting in significant inequities in AYA cancer care. Further, AYAs want to contribute to improvements in their care, yet have few opportunities to do so. In this article, we argue that to develop AYA-focused programmes there are important guiding principles for consideration to revolutionize AYA cancer care and support and respond to the holistic needs of AYAs.

Globally, over 1.3 million adolescents and young adults (AYAs), between the ages of 15 to 39 are diagnosed with cancer each year (1–3), and the incidence of cancer in AYAs is on the rise (1,4–6). AYAs have distinct medical and psychosocial needs that differ from children and older adults (1,4–8); yet, cancer care systems often have limited capacity to respond (5). This gap widens in lesser-resourced countries and is further amplified by an AYA’s intersectionality (e.g., race, age, sex, gender, culture, socio-economics, geography, family) and access to healthcare (2,9–11).

In this article, we, a group of participatory, arts-based researchers and people with lived experience with cancer as AYAs, share important guiding principles to help revolutionize AYA cancer care and support (“AYA care”) and respond to the holistic needs of AYAs. We begin with an orientation to the distinct realities of AYAs globally. We then briefly share about our work to transform AYA care, before advocating for the adoption of guiding principles to shape and inform AYA care globally in research and praxis.

Adolescent and young adult cancer care and support

By definition, AYAs are classified as anyone diagnosed with cancer between the ages of 15 to 39 (6). AYAs with cancer

face unique clinical and life stage challenges compared to children and older adults (1,4–8). A cancer diagnosis thrusts AYAs into a medical environment misaligned with their life stage and coincides with major life transitions such as entrance to post-secondary education or employment, independent living, marriage and partnerships, parenthood, or caring for ageing relatives (1,4–8). Further, it brings added anxieties and psychosocial impacts (12,13) including fear of early death (12,13), infertility (14), social and financial disruptions (15,16), social isolation (7,12,16,17), and fear for the future (12,16–19).

Despite the distinct needs and realities of AYAs, cancer care and support for AYAs is often inconsistent and fails to respond to their needs (1,4–8). Further, the annual diagnoses of cancer in AYAs are markedly rising (20,21). AYA cancers are poorly understood (5), pathways to diagnosis are generally prolonged meaning AYAs frequently present with advanced disease (1,4–7), and AYAs continue to have limited access to clinical trials (22). Although most AYAs are expected to survive, AYA survivorship outcomes have not seen similar improvements compared to other populations (23), and in survivorship, AYAs often face physical and psychosocial challenges impacting quality of life and healthcare systems (5,7). There is urgency for AYA-specific care that responds to the unique needs of AYAs

and supports them to survive and flourish.

Globally, there is an increased interest in AYA care (6,24–26). For example, the American Society of Clinical Oncology recommends comprehensive and coordinated care and support for AYAs alongside specialized training for clinicians working with AYAs (24,25) and, in several higher resourced countries (e.g., United Kingdom, Australia), AYA care is standard practice (25,26).

Despite global movements to advance AYA care, significant inequities remain (1,2). In lesser-resourced countries, AYA cancers are more likely to be advanced and fatal (2), and specialized AYA care is often non-existent (2). These inequities are amplified by an AYA's intersectionality and access to healthcare. There is an urgent need to address global health disparities and improve cancer care for AYAs who consistently “have been under-recognized, under-diagnosed, and under-served” (2).

Lastly, evidence suggests AYAs want to play an active role in contributing to change and have tangible recommendations to facilitate improvements (27–29). Yet, AYAs rarely have opportunities to share their insights and this lack of engagement is further pronounced in non-curative contexts (27).

“AYA cancers are poorly understood, and AYAs face unique challenges navigating cancer in their lives. More needs to be done to understand and address cancer for AYAs. I've lost too many friends and want to be part of the change.” – AYA with cancer

To address the issues identified above and revolutionize AYA care, a new approach is required. We call for an approach that places AYAs at the heart of the process, which draws on their unique and diverse experiences, provides them opportunities to exercise their agency to shape and influence practice, and draws on the power of creativity and partnerships to facilitate change.

Our commitment to create change in AYA care

Over the last five years, we have been working together with AYAs and knowledge users (healthcare providers, decision makers, researchers, community organizations, funders, supporters) in British Columbia, Canada, to better understand the cancer care and support experiences, needs, priorities, and capacities of AYAs and knowledge users; build awareness, understanding, and support amongst knowledge users; and co-design comprehensive AYA care in research and programming.

Through engagements with AYAs and knowledge users, we have intentionally used arts-based and creative practices to generate knowledge, build understanding, and create conditions for change. For example, we used drawing, poetry, and video with AYAs to support them in sharing their

experiences and perspectives about cancer care and support (30–32), and worked with AYAs to co-design immersive theatre experiences for healthcare providers, decision makers, and other knowledge users to get a felt sense of what it means to navigate cancer as an AYA (33). This work informed and shaped collaborations with AYAs and knowledge users to co-design initiatives and resources to improve AYA care, including the establishment of an AYA counselling pilot, AYA-specific resources, and an oncofertility programme that includes resources for both AYAs and healthcare providers, a care pathway, and a prompt in the electronic medical record (34–36). We are now witnessing strengthened collaborations amongst AYAs and interdisciplinary knowledge users and building momentum to revolutionize and reimagine AYA care.

As we seek to apply our learning more broadly, we believe it is vital to draw on interdisciplinary research and expertise in innovative, creative, holistic, and inclusive ways to respond to the unique experiences, needs, priorities, and capacities of AYAs, and nurture their health and wellbeing across contexts. We highlight the following principles for consideration.

Guiding principles for revolutionizing AYA cancer care and support

Value the wisdom of AYAs and knowledge users. Research indicates AYAs have a clear understanding of how their cancer experiences can be improved and want to play an active role in doing so (28,37). Yet, historically, AYAs have had little opportunity to share their insights with cancer care systems and contribute to transformative change (29). Of the AYA programmes developed in Canada, AYAs had limited engagement in programme co-design (29). Yet, literature from patient-oriented research and knowledge translation (KT) demonstrates that relevant patient and stakeholder engagement can improve research quality, healthcare practice, KT efforts, informed health decision-making, and patient reported outcomes (29,38–46). Further, engagement of AYAs with an uncertain future can develop new skills and insights, build networks, promote self-confidence, and contributes to legacy building (27). To create meaningful change in AYA care, it is essential that AYAs and knowledge users are meaningfully engaged as partners and collaborators to co-design, implement, monitor, and evaluate initiatives and programmes. This includes being at the heart of arts-based approaches that challenge conventional paradigms of health research.

Address inequities and enhances representation. Within research and healthcare practice generally, and in AYA-focused cancer care and support specifically, there remains a limited focus on understanding and improving care for AYAs with diverse intersectional identities (47–50). Evidence suggests that AYAs with certain facets of identity are particularly

underrepresented and underserved in research and practice, i.e., younger AYAs (4), AYAs who live rurally and remotely (51,52), AYAs who identify as 2SLGBTQIA+ (53,54), AYAs who identify as Indigenous (55,56), racialized AYAs (30,31,56), and AYAs with advanced cancer (57,58). Further, as Kimberlé Crenshaw explains in her theory of intersectionality, the overlapping, intersecting nature of identities (e.g., age, sex, gender, race, class, geography, disability) and how they intersect and reflect social structures of oppression and privilege amplify inequities (59–61). In addition, healthcare systems and practices have a longstanding history of being discriminatory, oppressive, and in some cases harmful to individuals with diverse intersectional identities.

In our work, we intentionally work with AYAs who have been historically and systematically excluded, marginalized, and underserved because of their identities (30,31,47–51,53–61) to better understand their lived experiences; interrogate health systems and practices; and co-design programmes, initiatives, and systems that better respond to the needs and realities of AYAs with diverse intersectional identities. For example, we engaged racialized AYAs to use arts and creative processes to explore their experiences with cancer care and support and identify solutions to improve their care (30,31), and we are working with AYAs living in rural and remote communities to explore how to better respond to their distinct needs in both research and practice. In all our research efforts, we work intentionally to engage AYAs with diverse experiences and intersectional identities, and we strive to ensure that members of our research teams are from communities who are historically excluded or underrepresented in research and practice. As we approach research and programming, we must commit to meaningfully engage AYAs with diverse intersectional identities to understand their experiences, needs, priorities, and capacities; interrogate the systems that provide care and support; and co-design equitable solutions. We must recognize the crucial importance of building a care system where AYAs with diverse intersectional identities see their identities are valued and represented in the people, services, cultures, practices, and systems.

Extend along the continuum of cancer care. In theory, cancer care and support extends along the continuum of cancer including prevention and screening, diagnosis, treatment, post-treatment care and survivorship, and end-of-life care. Yet, AYA programming and research tends to focus on active treatment phases, with limited focus on the other phases of care and on the continuity of care across phases (62). There is a need to provide cancer care and support to AYAs across the continuum of cancer.

Span across geographies and organizations. The AYA care landscape is vast and diverse and involves many organizations

and players. Simultaneously, AYA care often straddles both pediatric and adult care. Amidst this landscape, there is often limited integration and coordination across organizations (including community organizations) while healthcare systems are under pressure and strain. Further, pilot projects and specialized services (e.g., fertility services) tend to focus on AYAs in urban settings (52); however, digital health innovations offer opportunities to expand access to care. As we develop AYA programmes globally, it is critical that we focus on partnerships to overcome borders (e.g., geographical and organizational) to reach all AYAs.

Include a focus on creative health. Cancer care and support efforts, and healthcare efforts more generally, often focus on medical interventions and treating disease rather than adopting a more holistic conceptualization aligned with the World Health Organization (63). Adopting the orientation of creative health currently popularized in the United Kingdom shows promise, where creative health refers to creative approaches and activities that benefit health and wellbeing alongside more medicalized approaches (64–66). This includes prescribing arts and creativity through social prescribing; exploring the role of the arts and creativity in the provision of care; considering the role and function of arts and creativity in research and professional development; and leveraging creative partnerships and community collaborations to improve health and wellbeing (64–66). Broadening our perspectives to include a focus on creative health opens possibilities for innovation in AYA care and supporting the health and wellbeing of AYAs.

Apply creative approaches. Aligned with a creative health orientation, we argue for creative, arts-based approaches in health research, KT, and clinical practice. Arts-based and creative approaches use any form of art or creativity to collect, interpret, and/or share new knowledge (67,68), and they can support meaningful participation by valuing the perspectives and insights of participants, provide opportunities for participants to exercise their agency and contribute in ways that feel meaningful and important to them, share perspectives that may be new or overlooked, and move beyond power imbalances that may exist (67–71). In the context of health research, arts-based research practices are considered emancipatory or even radical in that they seek to amplify perspectives that are typically silenced or repressed (69), can challenge injustices and inequities (72), and challenge dominant research paradigms (67). Through our work using arts-based and creative approaches with AYAs and knowledge users, we witnessed the capacity of arts and creativity to disrupt power imbalances and create changes in AYA care. There are unique opportunities to leverage creative approaches to envision a novel and revolutionary approach to AYA care that does not yet exist and to inspire interdisciplinary actors and cancer

care systems to respond to the unique experiences, needs, priorities, and capacities of AYAs.

Leverage medical knowledge and expertise alongside qualitative research. Research indicates that some cancers in AYAs are biologically distinct; however, research on AYA cancer remains sparse. For example, in Canada, only 0.4% of all cancer research focuses on AYA cancer (73) and AYAs often have limited access to clinical trials (22). Further, clinician and patient reported outcomes suggest that AYAs can present with unique symptoms and respond to treatment differently compared to the average adult or paediatric patients (1,5,6,74). There is an urgent need to leverage the specialized knowledge and expertise of genomic research, clinical trials, population-based studies, and biomedical research to explore and extend how to best tailor and target cancer care and support for AYAs while simultaneously engaging in qualitative, participatory research studies to understand the lived and living experiences of AYAs and identify patient-centred priorities and solutions for AYA care.

Leverage digital health innovations. Advances in technology – and digital health specifically – are rapidly transforming possibilities for cancer care and support (75,76), and AYAs' technical savviness and comfort position AYAs to access, develop, and leverage technology innovations along the cancer care continuum (77,78). Opportunities for digital health innovations in oncology are vast and have the potential to improve patient experience and safety; facilitate patient engagement and empowerment; enhance patient interactions with clinicians and peers; streamline diagnoses and ongoing monitoring; improve clinical workflows, documentation and resource allocations; provide decision support for AYAs and clinicians; improve clinical trial access and monitoring; and enhance equitable clinical and supportive care, particularly for underserved AYAs and those who live in rural and remote locations (75–79). Further, digital health and technology innovations offer creative ways to engage in research, improve cancer care, and facilitate KT (80). It is important to explore and leverage technology and digital health innovations to revolutionize AYA care, while also recognizing the associated challenges and ethical considerations around privacy, equitable access, and responsible data (77).

Adopt an ethic of care. As we seek to revolutionize AYA care, we recognize we have a responsibility to care for the wellbeing of AYAs in research and practice, and commit to applying an ethic of care to our work (81,82). Based on our previous research projects, adopting an ethic of care means building AYA specific counselling support (or other culturally relevant supports) into all research budgets, ensuring participants have the means to access the supports they need throughout the research process; providing food in all group gatherings (e.g.,

grocery or food delivery cards for virtual gatherings, catered meals for in-person gatherings that meet participants' dietary and cultural food needs); providing compensation to AYAs for their time and expertise (83); offering both virtual and in-person research opportunities to support more equitable access; ensuring venues are accessible; providing a secure internet connection; not scheduling events during cultural days and times of significance; building in time and space for prayer; offering child and family care; and ensuring participants do not incur out-of-pocket expenses. Adopting an ethic of care also involves providing opportunities to AYAs to showcase or extend existing capacities and develop new capacities. For example, we seek to leverage and build the existing knowledge, skills, and capacities of AYAs to create change (e.g., catering, graphic recording, professional communications, and counselling) and we are committed to hiring AYAs with the required project skills to effectively support projects. As leaders, researchers, and practitioners, we must commit to building knowledge, skills, and capacities of knowledge users and AYAs to develop the next generation of researchers able to address complex challenges in innovative, interdisciplinary, and novel ways and improve AYA care. As we seek to revolutionize AYA care, a commitment to adopting an ethic of care remains at the forefront.

Conclusion

In summary, as awareness about AYA cancer care and support grows and incidence of AYA cancer rises, we have a distinct opportunity to reimagine AYA care. These principles provide a strategic framework that can be responsive to local contexts and set a new agenda for global change in AYA cancer care and support in research and praxis. ■

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Alice O'Grady, PhD, is a professor of applied performance at the University of Leeds, United Kingdom. She is a member of the Creative Arts and Health Research Laboratory which explores inclusive arts-based and digital methodological innovation in healthcare and is leading the establishment of a creative health strategy in West Yorkshire. O'Grady's expertise in applied theatre lies in exploring performance as a means of facilitating social

agency, engagement, and expression. Her research explores participation across a range of health contexts and investigates how participatory practices are mobilized as embodied tools for engaging with and problematizing processes of research, resistance and representation.

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Kat Dornian, MSc, is a research assistant at Anew. They have led community-engaged, educational projects in museums, universities, and local communities to increase involvement in sustainability, science, and engineering among groups that have been historically excluded from formalized participation in those fields. For their master's programme in engineering, they investigated the role of mentorship for diverse students in engineering outreach programmes. Now, as a young adult living with cancer, they bring their design, communication, and facilitation expertise to support change in AYA cancer care and support.

References

- Coccia PF. Overview of adolescent and young adult oncology. *Journal of Oncology Practice* 2019;15(5):235–7
- Li W, Liang H, Wang W, et al. Global cancer statistics for adolescents and young adults: population-based study. *Journal of Hematology & Oncology* 2024;17(1):99
- Miller KD, Fidler-Benaoudia M, Keegan TH, et al. Cancer statistics for adolescents and young adults, 2020. *CA: A Cancer Journal for Clinicians* 2020;70(6):443–59
- McInally W, Gray-Brunton C, Chouliara Z, et al. Experiences of living with cancer of adolescents and young adults and their families: a narrative review and synthesis. *Enfermería Clínica (English Edition)* 2021;31(4):234–46
- Berkman AM, Mittal N, Roth ME. Adolescent and young adult cancers: unmet needs and closing the gaps. *Current Opinion in Pediatrics* 2023;35(1):84–90
- Chisholm J, Hough R, Soanes L, editors. *A practical approach to the care of adolescents and young adults with cancer*. Cham: Springer International Publishing, 2018
- Young Adult Cancer Canada. YAC prime report [Internet]. St. John's: Young Adult Cancer Canada 2023 [cited 2026 Aug 13]. Available from: <https://youngadultcancer.ca/wp-content/uploads/2023/04/YAC-Prime-Report.pdf>
- Barr RD, Ferrari A, Ries L, et al. Cancer in adolescents and young adults: A narrative review of the current status and a view of the future. *JAMA Pediatrics* 2016;170(5):495–501
- Gupta S, Harper A, Ruan Y, et al. International trends in the incidence of cancer among adolescents and young adults. *JNCI: Journal of the National Cancer Institute* 2020;112(11):1105–17
- Wen YF, Chen MX, Yin G, et al. The global, regional, and national burden of cancer among adolescents and young adults in 204 countries and territories, 1990–2019: a population-based study. *Journal of Hematology & Oncology* 2021;14(1):89
- Alvarez EM, Force LM, Xu R, et al. The global burden of adolescent and young adult cancer in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet Oncology* 2022;23(1):27–52
- Korenblum C, Taylor RM, Fern LA, et al. Factors affecting psychosocial distress in adolescents and young adults with cancer: BRIGHTLIGHT cross-sectional and longitudinal cohort study results. *Cancers* 2025;17(7):1196
- Smrke A, Leung B, Srikanthan A, et al. Distinct features of psychosocial distress of adolescents and young adults with cancer compared to adults at diagnosis: patient-reported domains of concern. *Journal of Adolescent and Young Adult Oncology* 2020;9(4):540–5
- Daniel LC, Sabiston CM, Pitock M, et al. Fertility preservation in young adults: prevalence, correlates, and relationship with post-traumatic growth. *Journal of Adolescent and Young Adult Oncology* 2021;10(4):389–96
- Mahon KN, Garland SN, Eaton G, et al. The financial impact of cancer on Canadian young adults. *Journal of Cancer Survivorship: Research and Practice* 2023;17: 174–86
- Jones JM, Fitch M, Bongard J, et al. The needs and experiences of post-treatment adolescent and young adult cancer survivors. *Journal of Clinical Medicine* 2020;9(5):5
- De R, Sutradhar R, Kurdyak P, et al. Incidence and predictors of mental health outcomes among survivors of adolescent and young adult cancer: a population-based study using the IMPACT cohort. *Journal of Clinical Oncology* 2021;39(9):1010–9
- Schulte FSM, Chalifour K, Eaton G, et al. Quality of life among survivors of adolescent and young adult cancer in Canada: a young adults with cancer in their prime (YACPRIME) study. *Cancer* 2021;127(8):1325–33
- Lane BE, Garland SN, Chalifour K, et al. Prevalence and factors associated with fear of recurrence in a mixed sample of young adults with cancer. *Journal of Cancer Survivorship* 2019;13(6):842–51
- Ledford H. Why are so many young people getting cancer? What the data say. *Nature* 2024;627(8003):258–6
- Hamilton AC, Coleman HG. Shifting tides: the rising tide of early-onset cancers demands attention. *BMJ Oncology* 2023;2(1): e000106
- de Rojas T, Neven A, Terada M, et al. Access to clinical trials for adolescents and young adults with cancer: a meta-research analysis. *JNCI Cancer Spectrum* 2019;3(4): pkz057
- Trama A, Bernasconi A, McCabe MG, et al. Is the cancer survival improvement in European and American adolescent and young adults still lagging behind that in children? *Pediatric Blood & Cancer* 2019;66(1): e27407
- Shaw PH, Castellino SM, Guerrettaz R, et al. Adolescent and young adult oncology in the United States in 2025: finding its place in the oncology world part 2 of 2. *Journal of Pediatric Hematology/Oncology* 2025;47(7):327–34
- Osborn M, Johnson R, Thompson K, et al. Models of care for adolescent and young adult cancer programs. *Pediatric Blood & Cancer* 2019;66(12): e27991
- Ferrari A, Stark D, Peccatori FA, et al. Adolescents and young adults (AYA) with cancer: a position paper from the AYA Working Group of the European Society for Medical Oncology (ESMO) and the European Society for Paediatric Oncology (SIOPe). *ESMO Open* 2021;6(2):100096
- Burgers VWG, Dickhout A, Harthoorn NCGL, et al. Involving adolescents and young adults (AYA) with an uncertain or poor cancer prognosis as research partners. *Acta Oncologica* 2023;62(8):961–8
- Hawkins J. What adolescents and young adults want health professionals to know. In: Chisholm J, Hough R, Soanes L, editors. *A Practical Approach to the Care of Adolescents and Young Adults with Cancer*. Cham: Springer International Publishing, 2018. 211–38
- Oveisi N, Cheng V, Taylor D, et al. Meaningful patient engagement in adolescent and young adult (AYA) cancer research: a framework for qualitative studies. *Current Oncology* 2024;31(4):1689–700
- Hill TT, Cooper IR, Gill PK, et al. Learnings from racialized adolescents and young adults with lived experiences of cancer: "It's okay to critique the system that claims to save us." *Current Oncology* 2024;31(2):1091–101
- Hill TT, Cooper IR, et al. Imagining futures amidst the uncertainty of living: a critical participatory action research project with adolescents and young adults with lived experiences with cancer. *Journal of Critical Race Inquiry* 2024;11(2):40–61
- O'Grady A, Heykoop CA, Weigler W. The PAR3TY Project: Revealing unique cancer experiences and insights of teenagers and young adults through patient engagement, participation, and performance. *Current Oncology* 2024;31(10):5896–907
- Heykoop CA, Hill TT, O'Grady A, et al. From empathy to action: Exploring the impact of immersive theatre experience on audience members to improve adolescent and

References continued

- young adult cancer care and support. *Cancer Control* 2026;33:10732748261456810
34. Smrke A, Marr K, Heykoop C. New resources, improved fertility care for adolescents and young adults navigating cancer. *Journal of Family Practice Oncology* 2025;45(Fall):3–4
 35. Heykoop C, Smrke A, Wolfe J, et al. Reshaping adolescent and young adult cancer care and support through participatory engagement. *International Journal of Qualitative Methods* 2025;24:16094069251378343
 36. Heykoop C, Smrke A, Marr K. Towards an AYA cancer care and support program for BC/Yukon. *Journal of Family Practice Oncology* 2026;46(Spring):20–1. <https://www.bccancer.bc.ca/family-oncology-network-site/Documents/2026%20Spring%20FPONjournal%20FINAL.pdf>
 37. Janssen SHM, Vlooswijk C, Manten-Horst E, et al. Learning from long-term adolescent and young adult (AYA) cancer survivors regarding their age-specific care needs to improve current AYA care programs. *Cancer Medicine* 2023;12(12):13712–31
 38. Government of Canada Canadian Institutes of Health Research [Internet]. Strategy for patient-oriented research - patient engagement framework, 2014 [cited 2026 Aug 13]. Available from: <https://cihr-irsc.gc.ca/e/48413.html>
 39. Domecq JP, Prutsky G, Elraiyah T, et al. Patient engagement in research: a systematic review. *BMC Health Services Research* 2014;14(1):89
 40. Manafu E, Petermann L, Mason-Lai P, et al. Patient engagement in Canada: a scoping review of the 'how' and 'what' of patient engagement in health research. *Health Research Policy and Systems* 2018;16(1):5
 41. Sunderji N, Nicholas Angl E, Polaha J, et al. Why and how to use patient-oriented research to promote translational research. *Families, Systems, & Health* 2019;37(1):1–9
 42. Husson O, Reeve BB, Darlington AS, et al. Next step for global adolescent and young adult oncology: A core patient-centered outcome set. *JNCI: Journal of the National Cancer Institute* 2022;114(4):496–502
 43. Straus S, Tetroe J, Graham I, editors. *Knowledge translation in health care: moving from evidence to practice*, 2nd edition. BMJ Books, 2013
 44. Chhatre S, Gallo JJ, Wittink M, et al. Patient-centred outcomes research: perspectives of patient stakeholders. *JRSM Open* 2017;8(11):2054270417738511
 45. Frank L, Forsythe L, Ellis L, et al. Conceptual and practical foundations of patient engagement in research at the patient-centered outcomes research institute. *Quality of Life Research* 2015;24(5):1033–41
 46. Sharma AE, Grumbach K. Engaging patients in primary care practice transformation: theory, evidence and practice. *Family Practice* 2017;34(3):262–7
 47. Horrill TC, Browne AJ, Stajduhar KI. Equity-oriented healthcare: what it is and why we need it in oncology. *Current Oncology* 2022;29(1):1
 48. Lambert L, Horrill TC, McKenzie MR, et al. Health and healthcare equity in the cancer care sector in Canada: results of a rapid scoping review. *Journal of Clinical Oncology* 2022;40(16):e18536
 49. Hammond C. Against a singular message of distinctness: challenging dominant representations of adolescents and young adults in oncology. *Journal of Adolescent and Young Adult Oncology* 2017;6(1):45–9
 50. Gallegos D, Durham J, Rutter C, et al. Working towards the active participation of underrepresented populations in research: a scoping review and thematic synthesis. *Health & Social Care in the Community* 2023;2023(1):1312525
 51. Frosch ZAK. Where have we been with rural-urban cancer care disparities and where are we headed? *JAMA Network Open* 2022;5(5):e2212255
 52. Hess E, Anandan A, Osman F, et al. Disparities in treatment satisfaction and supportive care receipt for young adult oncology patients on the basis of residential location. *JCO Oncology Practice* 2022;18(9):e1542–52
 53. Ussher JM, Kimberley A, Rosalie P, et al. Disrupted identities, invisibility and precarious support: a mixed methods study of LGBTQI adolescents and young adults with. *BMC Public Health* 2023;23(1):1837
 54. Taylor PL, Lyver B, Kennedy M, et al. Inclusive care for sexual and gender diverse patients with cancer. Beyond words: the use of graphic medicine to convey the preliminary findings of a patients needs assessment. Poster presented at: Preaching to the Choir Conference: Canadian Psychological Association, 2023 Jun 21–23; Toronto, Canada
 55. Horrill TC, Linton J, Lavoie JG, et al. Access to cancer care among Indigenous peoples in Canada: a scoping review. *Social Science & Medicine* 2019;238:112495
 56. Tapparra K, Kekumano K, Benavente R, et al. Racial disparities in cancer stage at diagnosis and survival for adolescents and young adults. *JAMA Network Open* 2024;7(8):e2430975
 57. Drake EK, Weeks LE, van Manen M, et al. The delivery of palliative and end-of-life care to adolescents and young adults living with cancer: a scoping review. *Journal of Adolescent and Young Adult Oncology* 2023;12(5):611–24
 58. Abdelaal M, Avery J, Chow R, et al. Palliative care for adolescents and young adults with advanced illness: a scoping review. *Palliative Medicine* 2023;37(1):88–107
 59. Crenshaw K. Mapping the margins: Intersectionality, identity politics, and violence against women of color. *Stanford Law Review* 1990; 43:1241
 60. Bowleg L. The problem with the phrase women and minorities: intersectionality—an important theoretical framework for public health. *American Journal of Public Health* 2012;102(7):1267–73
 61. Young R, Ayiasi RM, Shung-King M, et al. Health systems of oppression: applying intersectionality in health systems to expose hidden inequities. *Health Policy Plan* 2020;35(9):1228–30
 62. James Lind Alliance [Internet]. James Lind Alliance priority setting partnership – adolescent and young adult cancer (Canada) top 10 priorities, 2024 [cited 2026 Aug 11]. Available from: <https://www.jla.nihr.ac.uk/priority-setting-partnerships/adolescent-and-young-adult-cancer-canada>
 63. Schramme T. Health as complete well-being: the WHO definition and beyond. *Public Health Ethics* 2023;16(3):210–8
 64. National Centre for Creative Health [Internet]. Oxford: National Centre for Creative Health. Why [cited 2026 Aug 11]. Available from: <https://ncch.org.uk/why>
 65. The All-Party Parliamentary Group on Arts, Health and Wellbeing, & the National Centre for Creative Health. Creative health review: how policy can embrace creative health [Internet]. Oxford: National Centre for Creative Health, 2023. Available from: <https://ncch.org.uk/creative-health-review>
 66. Jenkins C, Lambert K, Mackintosh W. An introduction to creative health. *InnovAIT* 2025;18(3):135–9
 67. Hinsliff-Smith K, McGarry J, Ali P, editors. Arts based health care research: a multidisciplinary perspective. *Cham: Springer International Publishing*, 2022
 68. Barone T, Eisner EW. Arts based research. *Thousand Oaks: Sage*, 2012
 69. Bird J. Arts-based research as a radical methodology within healthcare. In: Hinsliff-Smith K, Julie McGarry, Parveen Ali, editors. Arts based health care research: a multidisciplinary perspective. *Cham: Springer Nature*, 2022. 1–14
 70. Cox R, Heykoop C, Fletcher S, et al. Creative action research. *Educational Action Research* 2021;29(4):569–87
 71. Matarasso F. *A Restless Art: how participation won, and why it matters*. London: Calouste Gulbenkian Foundation, 2019
 72. Capous-Desyllas M, Morgaine K, editors. Creating social change through creativity: anti-oppressive arts-based research methodologies. *Cham: Palgrave MacMillan*, 2018
 73. Rogers P, Buckland T, Digout C, et al. *Person-centred perspective indicators in Canada: adolescents and young adults with cancer* [Internet]. Toronto: Canadian Partnership Against Cancer, 2017 [cited 2026 Aug 13]. Available from: <https://s22457.pcdn.co/wp-content/uploads/2019/10/Adolescents-and-Young-Adults-with-Cancer-Reference-Report-EN.pdf>
 74. Link C, Qi S, Thompson S, Delure A, et al. Understanding the symptoms and concerns of adolescents and young adults with cancer in Alberta: a comparative cohort study using patient-reported outcomes. *Journal of Adolescent and Young Adult Oncology* 2023;12(2):199–206
 75. Borkar S, Chakole S, Prasad R, et al. Revolutionizing oncology: a comprehensive review of digital health applications. *Cureus* 2024;16(4):e59203
 76. Parikh RB, Basen-Enquist KM, Bradley C, et al. Digital health applications in oncology: an opportunity to seize. *JNCI: Journal of the National Cancer Institute* 2022;114(10):1338–9
 77. Puthenpura V, Marks AM. Clinical application of digital technologies in adolescent and young adult oncology supportive care. *Journal of Adolescent and Young Adult Oncology* 2021;10(2):127–30
 78. Zhang A, Zebrack B, Acquati C, et al. Technology-assisted psychosocial interventions for childhood, adolescent, and young adult cancer survivors: a systematic review and meta-analysis. *Journal of Adolescent and Young Adult Oncology* 2022;11(1):6–16
 79. Steineck A, Lau N, Fladeboe KM, et al. Seeking virtual support: digital technology use in adolescent and young adults with advanced cancer. *Pediatric Blood & Cancer* 2022;69(11):e29938
 80. Dodlek N, Kassianos A, Avraamides M, et al. 1898P Efficacy of virtual reality-based interventions in cancer-related symptom management in AYAs: a systematic review. *Annals of Oncology* 2024;35(2):S1108
 81. Tronto JC. An ethic of care. *Generations: Journal of the American Society on Aging* 1998;22(3):15–20
 82. Brannelly T. An ethics of care research manifesto. *International Journal of Care and Caring* 2018;2(3):367–78
 83. Canadian Institutes of Health Research [Internet]. Patient partner compensation guidelines, 2022 [cited 2026 Aug 11]. Available from: <https://cihr-irsc.gc.ca/e/53261.html>