

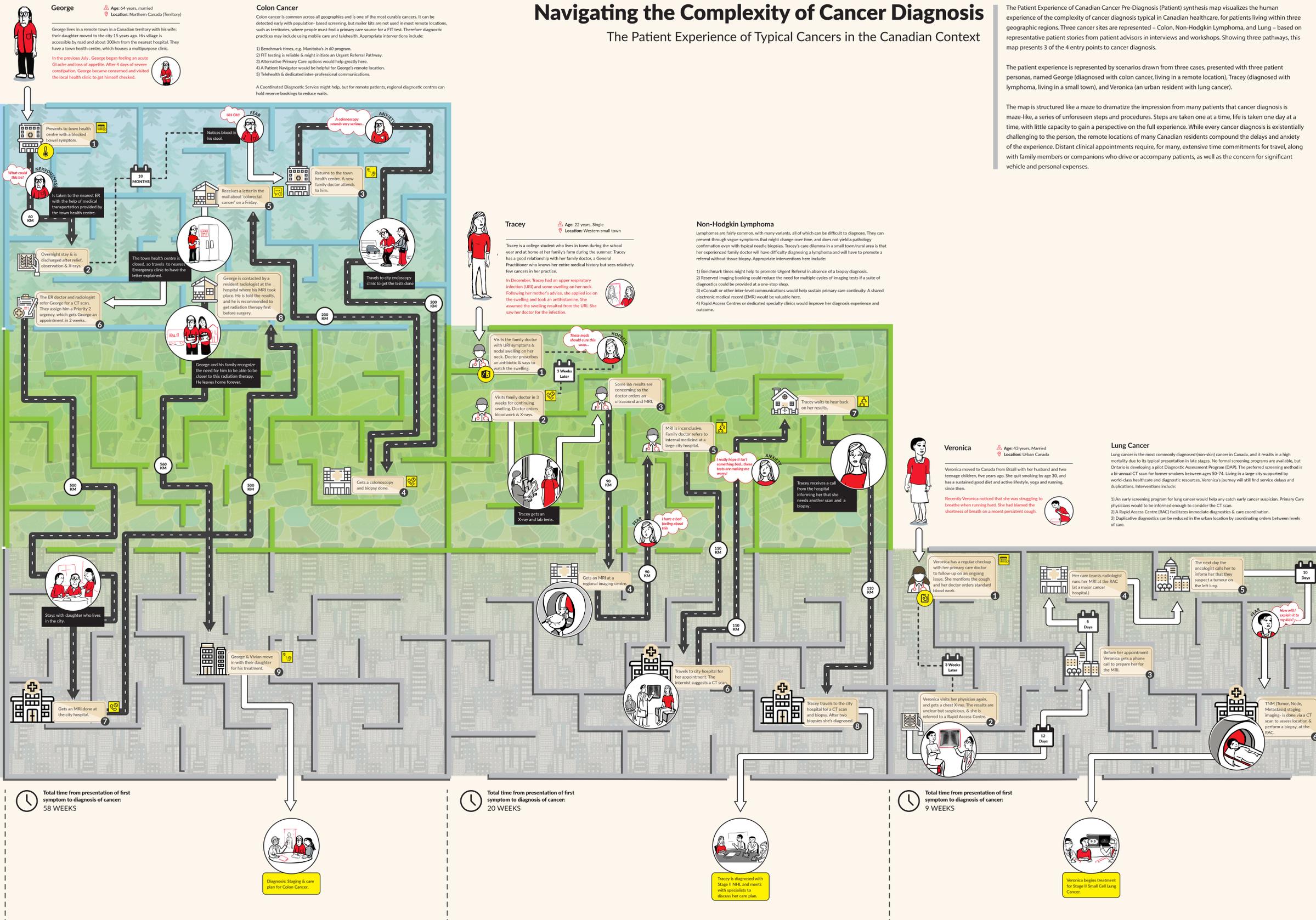
Navigating the Complexity of Cancer Diagnosis

The Patient Experience of Typical Cancers in the Canadian Context

The Patient Experience of Canadian Cancer Pre-Diagnosis (Patient) synthesis map visualizes the human experience of the complexity of cancer diagnosis typical in Canadian healthcare, for patients living within three geographic regions. Three cancer sites are represented – Colon, Non-Hodgkin Lymphoma, and Lung – based on representative patient stories from patient advisors in interviews and workshops. Showing three pathways, this map presents 3 of the 4 entry points to cancer diagnosis.

The patient experience is represented by scenarios drawn from three cases, presented with three patient personas, named George (diagnosed with colon cancer, living in a remote location), Tracey (diagnosed with lymphoma, living in a small town), and Veronica (an urban resident with lung cancer).

The map is structured like a maze to dramatize the impression from many patients that cancer diagnosis is maze-like, a series of unforeseen steps and procedures. Steps are taken one at a time, life is taken one day at a time, with little capacity to gain a perspective on the full experience. While every cancer diagnosis is existentially challenging to the person, the remote locations of many Canadian residents compound the delays and anxiety of the experience. Distant clinical appointments require, for many, extensive time commitments for travel, along with family members or companions who drive or accompany patients, as well as the concern for significant vehicle and personal expenses.



3X3X4 Framework

- 3 CANCER SITES:** Colorectal, Lung, and Lymphoma
- 3 GEOGRAPHIC REGIONS:** Urban/Suburban, Rural/Small town, and Remote/Northern
- 4 ENTRY POINTS:** Programmatic screening, Symptomatic, Opportunistic, and Incidental

Entry Points

- PROGRAMMATIC SCREENING**
Diagnostic programs for common cancer types coordinated by provincial health agencies. Current programs include: Breast, Colorectal, Cervical.
- OPPORTUNISTIC SCREENING**
Opportunistic screening is conducted on an individual basis as a result of an individual patient or health care provider's request or suggestion.
- SYMPTOMATIC SCREENING**
Investigation of suspicious symptoms is initiated by physicians when patients present with symptoms that may indicate the presence of cancer.
- INCIDENTAL SCREENING**
Incidental diagnosis involves identifying cancer when investigating other issues in the course of clinical suspicion.

Problematic Delays and Barriers to Diagnosis

- Vague Symptoms, Patient uncertainty.** Patients often ignore vague symptoms or put off consultations until symptoms are intrusive or painful. Some cancers can develop to Stage 4 without serious symptoms.
- Access to Care.** In remote areas there is a higher likelihood of poorer access to all levels of care. In small town/rural areas there may be excellent primary care, including continuing relationships between patients and physicians, and a community where providers will know one another. However, there are fewer high-end facilities for cancer and imaging, and far fewer cancer specialists.
- Communication issues.** There is a notable lack of care continuity in the cancer system. Multiple consultations are common with complex cancers, and physicians do not have norms for sharing patient information. There are often multiple transitions and referrals between clinics and physicians in different offices. Breakdowns or miscommunication can occur in the handoff of patients in referrals, with timely scheduling of each consultation, and with the lack of common EMR records or other information formats.
- Pre-Diagnosis is not Urgent.** Delays arise in early diagnosis due to a lack of perceived urgency, taking time off from work (when it's not yet a cancer suspicion), time and expense to travel to clinics or testing (remote & rural), and family support for travel.
- Distance/Transportation.** Transportation time and costs are an issue for remote residents, who also see family doctors infrequently due to travel requirements. Arranging and taking medical transportation can take significant time, and long-distance travel is a daunting expense for many. Lifestyle and work conflicts, or other appointments needing travel, can delay the diagnosis process.
- Transition / Handoff Delays.** 1. Time from symptom/suspicion to definitive diagnosis 2. Time from abnormal screening/specialist referral to definitive diagnosis 3. Time from symptom to provider evaluation 4. Time from screening test to diagnostic resolution 5. Time from diagnostic confirmation to patient notification

Recommended Interventions

- Program Communications.** Screening programs can provide proactive reminders to patients and help build health literacy, through direct communications from mail, phone, and in-person contact. Regular primary care visits (annual exams) can build a series of lab measures to establish a baseline, supported by deep patient histories and enhance diagnostic validity and care options to increase options for learning & health promotion.
- Alternative Primary Care Resources.** In remote areas we can pursue the intentional development of alternatives to conventional family practice: Town health centres, Indigenous community centres, pharmacies, mobile checkup and testing and mobile "locum" clinicians can be coordinated in a local ecology of support.
- Rapid Access Centres** are specialized cancer clinics, often focused on a major cancer site, to provide responsive regional services for patients referred as urgent through primary care diagnosis. Family health and inter-practice networks, available through a single 800#, provide another model of rapid patient escalation.
- Patient Navigation** Patient Navigator support programs, clinical staff, even resource nurses can assist patients in managing appointments, understanding their diagnostic procedures, and with the transitions from screening and primary care to cancer diagnosis. Telehealth can also provide a channel for patient navigation.
- Technology interventions.** eConsult interprofessional email, telehealth systems, and open EHRs in particular have great promise. Diagnostic informatics based on machine learning, as well as better point-of-care diagnostic references are significant emerging tools. Patient communication and medication management apps are helpful patient-facing technologies.
- Standardized Pathways.** Several pathway models are recommended for consideration: 1. Benchmark throughout wait times for a jurisdiction, considering program incentives and metrics 2. Establish standard pathways for well-known and problematic cancers 3. Develop Urgent Referral Pathways for managing care transitions for clear cancer symptoms 4. Coordinated or centralized diagnostic services accessible to regional health practices

Legend

- TYPES OF JOURNEY FLOWS**
- General process flow between different steps along the pre-diagnosis journey
- Long distance travel required between different touchpoints/levels of care
- Break/lag in flow between different steps along the pre-diagnosis journey

Abbreviations

- CT: Computed Tomography Scan
 - DAP: Diagnostic Assessment Program
 - ED/ER: Emergency Department
 - FIT: Fecal Immunochromatol Test
 - FOBT: Fecal Occult Blood Test
 - GI: Gastrointestinal
 - MRI: Magnetic Resonance Imaging
 - NHL: Non-Hodgkin Lymphoma
 - PC: Primary Care (Physician or Practitioner)
 - RAC: Rapid Access Centre
- © 2018 Canadian Partnership Against Cancer. Synthesis maps designed for the Partnership by the OCAD U Health Design Studio team. Production of the synthesis maps was made possible through financial support from Health Canada.