

Faculty of Design

### 2018

### Navigating the Complexity of Cancer Diagnosis: Synthesis Maps for Diagnosis of Common Cancers in Canadian

### Contexts

Jones, Peter, Juneja, Manpreet and Bisht, Pupul

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Care Coordination



Primary Care



Secondary Care (Oncology / Specialists)





Based on: National Academies of Sciences, Engineering, and Medicine. (2016). Conceptualization of the diagnostic process. Improving Diagnosis in Health Care. National Academies Press, pg. 33.

F Diagnostic Cycle icon

Tertiary Care (Acute / Oncology)

# 3x3x4 Framework

3 cancer sites: Colorectal, Lung, Lymphoma

3 geographic regions: Urban, Rural/Small town, and Remote

4 entry points: Programmatic screening, Symptomatic, Opportunistic, Incidental

# Entry Points



PROGRAMMATIC SCREENING Diagnostic programs for common cancer types coordinated by provincial health agencies. Current programs include: Breast, Colorectal, Cervical, Prostate.

**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 Investigation of suspicious symptoms is initiated by physicians when patients present with symptoms that may indicate the presence of cancer.

## **Delays and Barriers**



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.

Pre-Diagnosis is not Urgent. Delays arise in early diagnosis due to a lack of perceived urgency, taking time off from work (when its not yet a cancer suspicion), time and expense to travel to clinics or testing (remote &

rural), and family support for travel.

# Interventions & Solutions

Program Communications. Screening can provide proactive reminders and help build health literacy. Regular primary care visits (annual exams) can build a series of lab measures as a baseline, to increase options for learning & health promotion.

**Navigation**. Patient Navigator programs, clinical staff, even resource nurses can assist patients in managing appointments, understanding their diagnostic procedures, & with transitions from screening and primary care to cancer diagnosis.

Distance/Transportation. Transportation time and costs are an issue for remote residents. Arranging & taking medical transportation takes time & long-distance travel is a daunting expense. Work conflicts or other appointments

**Communication Issues.** There is a notable lack of care continuity in the cancer system. Multiple consultations & referrals are common; physicians use outdated tools for sharing patient data.

Alternative Primary Care Resources. In remote

📒 🛛 EHRs have great promise. Diagnostic informatics & 🖡

helpful patient-facing technologies.

point-of-care diagnostic references are emerging

tools. Patient communication & medication apps are

**Technology.** eConsult email, Telehealth, & open



INCIDENTAL DIAGNOSIS Incidental diagnosis involves identifying cancer when investigating other issues in the course of clinical suspicion.

areas alternatives to typical family practice are needed. Town health centres, Indigenous community centres, pharmacies, mobile checkup and testing and mobile "locum" clinicians can be coordinated in a local ecology of support. Telehealth services should be considered.

needing travel can delay the diagnosis process.





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