ORIGINAL RESEARCH

Canadian HIV Care Settings as Patient-Centered Medical Homes (PCMHs)

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Purpose: For people living with HIV (PLWH) using continuous antiretroviral therapy, HIV is now a complex chronic condition often managed in primary care settings. The patient-centered medical home (PCMH) is a model to deliver comprehensive, coordinated, and integrated primary care that promotes collaboration between primary and specialist care and allied services. The study assessed how both Canadian primary and specialist HIV care settings align with the PCMH.

Methods: Mixed-methods surveys and interviews with providers in Canadian HIV care settings. Results: Twenty-two settings completed the survey, 12 of which participated in follow-up interviews. Settings had a mean PCMH score of 8.06/12 (SD = 1.53), indicating the basic elements of each PCMH domain have been implemented. We found no significant differences between HIV primary care and specialist care settings. Continuous team-based healing relationships had the highest score (mean = 9.2; SD = 2.15), and quality improvement strategy had the lowest score (mean = 7.19; SD = 2.26). The themes that arose from the interviews were 1) endorsement of the domains of the PCMH by all settings, 2) organizational structures of settings located in hospitals facilitating the implementation of the PCMH through existing technology, patient advisory boards, and accessible services, and 3) dissonance between complex care needs and existing organizational structures in some settings, including limited clinic hours, lack of electronic medical records, and limited mental health services.

Conclusions: HIV care in Canada is reasonably well aligned with the PCMH, irrespective of structure of settings. We propose the need for improvements in the use of electronic medical records, quality improvement strategies, and integration of mental health services to achieve better care delivery and health outcomes among PLWH in Canada. (J Am Board Fam Med 2019;32:158–167.)

Keywords: AIDS, Canada, Chronic Disease, Delivery of Health Care, Mental Health Services, Patient-Centered Care, **Primary Health Care**

Due to increased quantity and quality of life arising from combination antiretroviral therapy, HIV has evolved into a complex chronic health condition. ^{1–3} In turn, there is a requirement to shift from a focus on treatment of opportunistic infections toward the prevention and management of multimorbidity⁴ among people living with HIV (PLWH). This shift reinforces the importance of meeting the compre-

This article was externally peer reviewed.

Submitted 9 August 2018; revised 2 November 2018; ac-

cepted 5 November 2018.

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Funding: The study was funded by the Canadian Institutes of Health Research (CIHR) FRN TT5-128270.

hensive, continuous care needs of PLWH while promoting the integration of primary care with other medical specialties.⁵ Physicians specialized in HIV or infectious diseases predominately manage the care of PLWH in Canada, and while they are best equipped to deliver disease-specific care, primary care providers have the expertise to deliver chronic disease care.8 Canadian HIV primary care settings are more likely to offer preventative health services than specialist care settings. ⁹ Currently, we know little about how the evolving needs of PLWH are met within the settings where they receive care.

The patient-centered medical home (PCMH) is an approach to transforming primary care delivery through improving its quality, effectiveness, and efficiency, thereby facilitating its role as the foundation of a high-performing health system. 10 The joint domains of the PCMH (Table 1) have the potential to address existing care gaps through integration and collaboration between primary and specialist care, community health and social services.11 The Ryan White-funded HIV clinics became early adopters of the PCMH model¹² that has since become the standard for primary care delivery. 13-15 A recent study of HIV clinics within the Veterans Affairs Health System found variation in the alignment of HIV specialty clinics to PCMH principles.¹⁶ Our objective was to determine the alignment of Canadian HIV care settings, which vary considerably in structure, function, and team composition, 9 to the PCMH. As all Canadian provinces have a single-payer system with universal access to physician services, our findings can inform recommendations to ensure PLWH receive patient-centered care in a setting and with providers appropriate to their evolving physical, mental, cognitive, and social needs.

Methods

Study Design

We conducted an explanatory sequential mixedmethods study, which included a Web-based survey between June 2015 and January 2016 followed

Conflict of interest: none declared.

by semistructured interviews between November 2016 and February 2017. The survey was used to evaluate the alignment of HIV care settings with the PCMH, while the interviews with a sample of the survey respondents were conducted to further explain the results from the survey and to assess in greater detail if and how settings implement the joint domains of patient oriented care as specified by the PCMH.

Setting and Participants

The study is part of a large Canadian Institutes of Health Research funded team grant (https:// www.lhiv.ca/). Appendix A outlines our sampling strategy. We identified Canadian HIV care settings using purposive sampling of potential settings based on an environmental scan and expert knowledge of team members. We recruited key contact persons at these settings via phone and invited them to participate. We included settings with an identified focus on providing care to PLWH, but did not restrict our search based on proportion of patients with HIV or on whether services were provided to an HIV priority population, such as men who have sex with men. Survey participants were asked for consent to be contacted for a follow-up interview. Interview participants received a \$75 gift card.

Theoretical Framework

Our research was guided by the PCMH framework including 8 evidence-based domains that were specifically developed to guide settings that intend to become a PCMH¹⁷ (Table 1). The domains define the characteristics and behaviors that constitute a PCMH, enabling our team to assess the individual setting's level of alignment with each of the 8 domains.

Measurements

We developed the Canadian HIV Clinic Survey, which included an adaptation of 2 validated primary health care surveys, the Patient-Centered Medical Home Assessment (PCMH-A)^{10,13} and the Canadian Institutes of Health Information Organizational Attributes of Primary Health Care Survey. 18 The PCMH-A tool was developed for care settings to assess their alignment to the PCMH model.¹⁹ Each domain is scored on a 12-point scale, with total scores associated with a level and corresponding interpretation (Table 2). We modi-

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Table 1. Domains of the PCMH Framework

Domain	Definition
1: Patient rostering	Patients are assigned to specific providers and care teams.
	Patient data is routinely used for scheduling purposes and monitored to balance supply and demand.
	Electronic medical records on individual patients are available to practice teams.
	Reports on care processes are provided.
2: Continuous, team-based healing relationships	Patient sees their own provider or team.
	Non-physician practice team members perform key clinical service roles that match their ability and credentials.
	Staff is properly trained for roles and responsibilities.
3: Patient-centered interactions	Patients are driving their care.
	Patient and family values and preferences are assessed and incorporated in planning and organizing care.
	Communication techniques are used, such as translation services, to ensure the patient can understand.
	Self-management support is provided.
	Patient-centeredness is consistently used to guide organizational changes.
	Frequent and actionable input from patients and family members is used for quality improvement.
4: Engaged leadership	Leaders support continuous learning, review and act upon quality data, and have long-term strategy and funding commitment to explore and implement change.
	Clinical leaders champion and engage clinical teams in improving patient experience of care and clinical outcomes.
	Hiring and training supports and sustain improvements.
	Responsibility for quality improvement activities is shared by staff, and time is protected to meet to engage in quality improvement.
5: Quality improvement strategy	Electronic health record and other health information technology used to support population management and quality improvement efforts.
	Feedback provided to care teams and staff to improve processes and outcomes.
	Performance measurement is used and reported back to providers.
6: Enhanced access	Appointments are flexible and can accommodate customized visit lengths, same- day visits, and scheduled follow-up.
	Choice of phone, e-mail to contact the practice team during normal hours.
	After-hours access is available.
	Enhanced access includes eliminating barriers to care including those related to a patient's ability to pay.
7: Care coordination	Care coordinated within practice, creating a care hub, and between the practice and outside services.
	Team reaches out and connects in meaningful ways with other sources of service, and communicates consistently and without delay.
8: Organized, evidence-based care	Guideline based care that incorporates preventative and chronic illness needs.
	Visits are organized to address both acute and planned care needs.
	Case managers are available, and used for high risk patients.
	Care plans are developed collaboratively, including clinical management.

PCMH, patient-centered medical home.

fied the PCMH to ensure relevance to the Canadian health care system while leaving the scoring system unchanged.

After survey analysis, the team reviewed the data and developed an interview guide to further assess the implementation of the patient-oriented aspects of the PCMH. Two interviewers conducted semistructured interviews over the phone with physicians, nurses, and others in leadership positions at 12 of the 22 surveyed settings. Interviews included questions about the services offered, the setting's approach to patient-centered care, and the involvement of senior management. Interviews were recorded and transcribed verbatim.

Table 2. Interpretation of PCMH-A Scores

Score	Level	Interpretation
10 to 12	A	Most or all of the critical aspects of the key change addressed by the item are well established in the practice.
7 to 9	В	The basic elements of the key change have been implemented, although the practice still has significant opportunities to make progress with regard to one or more important aspects of the key change.
4 to 6	С	The first stage of implementing a key change may be in place, but that important fundamental changes have yet to be made.
1 to 3	D	Absent or minimal implementation of the key change addressed by the item.

PCMH-A, patient-centered medical home assessment.

Source: http://www.safetynetmedicalhome.org/sites/default/files/PCMH-A.pdf.

Analysis

To analyze the survey responses, we categorized settings into 2 groups: clinics containing either a family practitioner or a nurse practitioner (primary care settings, n = 12) and settings containing only an infectious diseases specialist (specialist care settings, n = 10). We calculated the mean and standard deviation to assess settings' PCMH scores and used 2-tailed independent samples t-tests to assess differences in scores between the groups.

Interviews were analyzed by 2 reviewers using the coding framework approach for qualitative data analysis.20 The goal of the analysis was to assess how settings interpreted the patient oriented aspect of the PCMH and how settings perceived their care practices to align with the PCMH. A thematic framework was constructed based on the definitions of the 8 domains of the PCMH, and in direct correspondence with the survey. The data were coded to identify elements confirming and disconfirming alignment with the PCMH, to compare the answers of providers from primary care and specialist care settings, and to compare between settings with lower and higher PCMH alignment. The reviewers met weekly to compare and discuss their findings, which were shared with collaborators, including 3 PLWH, who helped interpret the results and to derive at the themes that helped contextualize the quantitative survey results. In addition, as with all studies on our team,²¹ PLWH collaborators participated in the development of the research questions, the initial design of the research and the creation of the interview guide. They were consulted about the relevance of the research findings to the lives of PLWH. They, for example, highlighted the role of technology and the associated advantages and disadvantaged of a functioning EMR system. NVivo 11 was used for analysis.²² The ethics boards of the Ottawa Health

Sciences Network (protocol #20140649 a - 01H) and Bruyère Continuing Care (protocol #M16 a -15 a - 011) approved the study.

Role of the Funding Source

The study was funded by the Canadian Institutes of Health Research (CIHR) FRN TT5 a - 128270. CIHR had no role in the design of the study, the collection, analysis, and interpretation of the data, and the reporting of the findings.

Results

Background Information of Participating HIV Care Settings

Twenty-two care settings completed the survey (response rate of 51%): 20 in English, 2 in French. Sixteen of the 22 surveyed settings (73%) consented to be contacted for follow-up interviews, and 12 of the 16 (75%) were interviewed. The details of the organizational attributes of the settings are provided elsewhere.9 Most Canadian HIV care settings were located in urban settings (19/22 in a city) and 15/22 care settings were located within a hospital. Twelve settings were defined as primary care and 10 as specialist care settings.

Alignment with the PCMH

The mean PCMH-A score of the settings surveyed was 8.06 (SD = 1.53) out of a possible 12 points, indicating that the "basic elements" of each domain have been implemented. There were no significant differences between primary care and specialist care settings across either mean or individual PCMH domain scores (Table 3). Two settings scored in level A, representing higher alignment with the PCMH and providing patient-centered care, and 5 settings scored in level C, representing lower alignment with the PCMH and offering only basic sup-

Table 3. PCMH-A Scores of Primary and Specialist Canadian HIV Care Settings by Type of Care Settings and Interpretation

	Primar (n =		Speciali (n =		Interpreta	ntion	P-Values for
Domain	Mean	SD	Mean	SD	Mean Score (/12)	Level (A-D)	t-Test
1: Patient rostering	7.98	2.26	8.53	2.46	8.23	В	.594
2: Team-based relationships	8.61	2.04	9.92	2.15	9.20	В	.160
3: Patient-centered interactions	7.35	1.82	8.53	2.49	7.89	В	.213
4: Engaged leadership	8.02	2.09	8.19	2.63	8.10	В	.866
5: Quality improvement	7.31	2.25	7.05	2.39	7.19	В	.794
6: Enhanced access	8.11	2.35	6.53	2.40	7.39	В	.136
7: Care coordination	8.49	1.43	8.24	2.04	8.37	В	.743
8: Evidence-based care	8.07	2.03	8.13	2.47	8.09	В	.954
Total	7.99	1.36	8.14	1.79	8.06	В	.831

PCMH-A, patient-centered medical home assessment; SD, standard deviation.

port for patient-centered care. There were no significant differences in mean PCMH total score and individual domain scores between survey respondents who did and did not consent to be interviewed.

Rostering

Rostering refers to the assignment of individual patients to specific providers and forms the basis for continuity of care and population health management. The mean score for patient rostering was 8.23 (SD = 2.31) reflecting that most patients are registered with a particular provider but that improvements can be made by using electronic medical records (EMRs) to support care. Most (10/12) interview participants described that patients are assigned to a specific provider, "so the patient will always know who their nurse is or who to contact if they have issues" (setting (S) 7). In contrast, 2 participants explained that the care of all their patients is shared between providers. Although participants recognized their importance, the availability and uptake of EMR as a tool for rostering and population planning was limited, "[The EMR is] not great in terms of us being able to track CD4 or viral loads" (S9). Participants without EMR (4/12) expressed frustration about not having access to these data, and 1 explained that concern for privacy breaches inhibited them from making patient data accessible electronically.

Continuous, Team-Based Healing Relationships

Continuous, team-based healing relationships includes encouraging patients to see their own provider, nonphysician providers being able to perform important clinical roles, and the provision of training as required by staff. It was the highest-scoring domain with a mean of 9.2 (SD = 2.15) illustrating that the continuous care approach is well integrated in Canadian HIV care settings. Interview participants described working as large and well-integrated teams where patients were oriented to all team members: "They are always introduced to our social workers, even if they do not need anything at that time. At least they have a name and a face and a card so if there are issues down the road. And then introduce them to any other team members that they might need" (S1). In contrast, 1 setting with lower PCMH alignment explained that their team only consists of infectious disease specialists.

An important premise of a PCMH is that team members work to their full scope of practice.²⁴ One participant described ensuring their staff received training that enabled them to care for complex clients, "A lot of our staff are trained in motivational interviewing and [...] have those skill sets to move people or start to engage people in terms of health goals" (S9). While scores were high across settings, we identified limitations in the implementation of this domain. For example, the roles of individual clinicians within settings were not always clearly delineated, "Sometimes I am the social worker even though I am not trained. Sometimes the social worker is the nurse practitioner a little bit" (S4). In addition, some settings reported that continuous care is compromised due to high staff turnover.

Patient-Centered Interactions

The domain patient-centered interactions include a systematic assessment of patient's values and preferences, encouragement of and support for shared decision making and the provision of self-management support services. Settings had a patient-centered interactions score of 7.89 (SD = 2.18) showing that settings generally respected patients' values, supported shared decision making and elicited patients' feedback. Interview participants were able to define the concept well even in instances where they reported struggling to implement such care in practice. One participant from a setting with lower PCMH alignment described a patient-centered setting as "a clinic that offers care to clients who have, with HIV. It is a clinic that can respond to needs, say, from Monday to Friday with a sort of walk-in approach where patients can be seen, can get information. In addition, it is a place where patients can be followed by a multidisciplinary team that can include at times a doctor, a nurse, a pharmacist, a social worker precisely to organize many, many different orientations of this, treatment of this clientele, which goes way beyond HIV, of course. It can be work-related problems, insurance, health insurance, employment, other conditions, other associated comorbidities" (S12). However, they then reported, "For us, our clinic is not such a clinic." Some participants explained that limited consultation time inhibits a patient-centered approach, while others said their staff may not be sufficiently trained to provide patient-centered care.

All participants described the importance of patient-centered care, "When we first meet with the family and patient we describe to them what our clinic, how our clinic functions [...], help them be part of the decision making of when starting medication or we need to know more about the family dynamics and if there's issues that would be roadblocks to treatment. So I think it is always approaching the family as they are part of the team" (S8). Multiple settings (5/12) facilitated patient-centeredness using translation services, including access to American Sign Language.

All settings elicited patient feedback through surveys and 3 settings involved community members as representatives on patient advisory boards, a system that had been implemented at their affiliated hospital. Participants from settings with lower PCMH alignment were concerned about the limited input patients have regarding organizational decisions, "In terms of leadership and decision making, we need more patient input as well" (S10).

Engaged Leadership

Engaged leadership incorporates supportive executive and clinical leaders who support the implementation of PCMH principles. Settings had a mean engaged leadership score of 8.10 (SD = 2.30), indicating generally a shared vision of staff and management for the PCMH model of care and their systematic collaboration to provide best care for patients. Many participants (7/12) described working in a supportive environment where management understands the principles of patient-centered care and leaders are engaged and listen to needs of front-line staff. One setting with higher PCMH alignment explained that, as a community health center, the tenets of patient-centered care were embedded in their operations. Five settings (4 of which had lower PCMH alignment) described their leaders as disengaged, related to the care setting being located within a larger hospital, "It is a big hospital so, the big changes we do not find out about, [...] they are made outside of our realm" (S1). Participants reported that hospital leadership may not fully understand the complexities of HIV care when making budget or staff decisions, thus risked implementing changes without adequate consultation.

Quality Improvement Strategy

This domain refers to the implementation and measurement of activities that are meant to improve care quality and patients' experiences and health information technology is an important component. Quality improvement strategy had the lowest mean score of 7.19 (SD = 2.26) and the 5 settings with lower PCMH alignment had particularly low scores (range, 3.67 to 5.5) in this domain, reflecting that settings initiated quality improvement activities, but they often did not measure the outcomes of such activities. Settings with higher PCMH alignment described using surveys to collect data on patients' experiences, "We survey every year to make sure that we are meeting the needs of our patients and our clients. [...] And we try to make changes accordingly whenever we possibly can" (S1), but they did not describe how the findings were used to implement organizational change. Another participant shared that their setting routinely assesses its policies and procedures using an externally administered survey. However, as described, uptake of EMR for quality improvement was limited in most settings.

Enhanced Access

Enhanced access corresponds to the elimination of barriers for patients to access care, including time, place, and cost of care. Settings had a mean enhanced access score of 7.39 (SD = 2.45), reflecting a perceived ability to provide patients with flexible and affordable access to care, services, and advice around the clock. Six settings had limited times for patient visits because their services were bound by hospital hours. One of those settings, with higher PCMH alignment, compensated by providing telephone access between in-person appointments, "We have business cards that we give them if there's any issues or side effects that they experience" (S1). To enhance geographic reach, videoconferencing access was offered at 2 settings, and 2 other settings provided patients with flexible hours including evening and weekend, "because we all share the same electronic medical record, if let us say a person with HIV ran out of their antiretrovirals and it is Sunday, from noon to 4 they could go to 1 of our 6 sites" (S4). Participants from all settings described having pharmacists or social workers with the expertise to help patients navigate the various potential funding schemes for affordable HIV medication access.

Care Coordination

Care coordination refers to the appropriate allocation of care services within settings and communities. Settings had a mean care coordination score of 8.37 (SD = 1.69), indicating patient care is organized reasonably effectively. Interview participants explained in great detail the relationships they have fostered among providers within their settings and communities to care for their patients' complex needs. Eleven settings coordinated extensive services beyond HIV-specific care. Participants from several settings outlined the need for their patients to have a primary care provider who will coordinate the person's care, "We are specialists. [...] We're seeing the patient, we're following the patient for the HIV. But we depend on the primary care doctors to follow on a regular basis" (S6). A participants from a setting with lower PCMH alignment described visit length being too short for specialists to properly manage all the needs of their patients. To greater meet their patients' needs, this setting employed a social worker and a case manager to coordinate required care and social services for their patients within the community, while other settings employed "nurse practitioners who provide primary care services" (S9). All interview participants described a need for more mental health services, including trauma and addiction services, which were either not available or not available in a timely fashion for all patients either in the care setting or the community. Finally, use of an EMR was described as being important for intraclinic communication and collaboration around individual patients, "Our director of the HIV program also has access to our EMR so that we can consult him through the EMR and he'll respond with, to do a chart review. And give us that expert advice" (S3).

Organized, Evidence-Based Care

Organized, evidence-based care includes the use of guideline-based information when making care decisions to meet patients' acute, preventative, and chronic care needs and to ensure follow-up care. Settings had a mean of 8.09 (SD = 2.19) in this domain, reflecting care is generally structured to meet both urgent and preventative needs and highrisk patients are identified; however, settings' scores varied considerably. Several participants described using practice data to address the complex needs of their patients. A participant from a setting with higher PCMH alignment spoke about the role of case managers, who they involved in the development of care plans, "provincially, there's been a lot of success around case management and a lot of our patients simply would not be engaged in care if they did not have case management" (S10). One participant described using the data collected with the EMR effectively to apply evidence-based strategies to care for their patients, "We stratify then by CD4 counts. So we can sort of prioritize those patients who are at highest risk of getting sick" (S3). Based on the EMR reports, the nurse and physician will collaborate with social workers to create care plans.

Discussion

Our analysis has 3 important findings that advance our understanding of the alignment of Canadian HIV care settings with the PCMH. First, all HIV care settings interviewed endorse the domains of PCMH, irrespective of their composition. While a study in the US found that traditional specialist consultation models struggled to implement the principles of the PCMH, ¹⁶ we found no differences between specialty and primary HIV care settings in their alignment to the PCMH model. At the start

of the epidemic, HIV care was interdisciplinary out of necessity, with specialists collaborating with primary care and other providers to improve patients' quality of life.^{5,24} This grassroots collaboration could explain the similarities we found between primary and specialist care settings and the recognition among interviewed participants from specialist settings of the importance of connecting their patients to primary care. While the PCMH was envisioned for primary care transformation, there is recognition for the need of implementing PCMH domains in specialist care settings and Infectious disease participants understood the need for patient-centered HIV care. Fix et al¹⁶ noted that a specialist consultative model poses a risk to PCMH-principled care and our research shows that they can align well with the PCMH when collaborating and communicating closely with primary care by establishing relationships with primary care settings. In addition, all settings strongly endorsed team-based care and interdisciplinary collaboration, consistent with care models for people with other chronic conditions.²⁵ Few settings delivered complete enhanced access to care, but settings mitigated this by offering after-hour telephone services, telemedicine and by connecting patients to primary care physicians. Settings also ensured their patients have access to affordable medications, which remains a gap for PLWH in Canada despite our universal access to physician services.²⁶ In addition, all participants reported on the importance of incorporating the patient perspective into how care is delivered within their settings.²⁷

Second, our results reflect that existing organizational structures of care settings located in larger institutions can help facilitate the implementation of PCMH domains. Despite structural variation, overall, settings leveraged existing resources such as established patient advisory boards, EMR and technology, 15 including telemedicine and translation services. Larger organizations are further more likely to have established protocols for care coordination, 15 which was noted by participants to be required to address the clinical complexity of HIV care.

Third, we found that some settings experienced dissonance between the complex needs of their patients and existing organizational structures and rigid organizational policies. Even though a number of settings had EMR, some struggled with using EMR to fulfill PCMH domains. For example, participants expressed challenges in using the EMR as a clinical information system for population management, to implement decision support, or to facilitate communicate with other providers. The inhibited use of EMR due to rigid policies limited the ability of setting to measure and achieving cascade goals, and modification to existing EMR systems may be needed to fully meet the needs of the population.²⁸ In addition, limited clinic hours were described as a barrier for care access, despite afterhours access being increasingly recognized as important for high-quality care.²⁹ The lack of mental health services within settings was particularly daunting for participants. There is a high burden of mental health and addiction for PLWH30 and increasingly large wait times for mental health services were noted in the interviews. While not specifically prompted, none of the participants described comprehensive quality improvement strategies, despite the increasing emphasis on quality improvement in health systems practices. 31,32

We acknowledge limitations in our study. Settings in some provinces did not participate, limiting the generalizability of our findings. The participating settings were predominately in urban areas, potential due to challenges in access to specialty care services in rural areas,33 where sites may not promote themselves as HIV care settings. Our data are based on self report, thus response bias is anticipated. While the PCMH can serve as a framework to assess change in the quality of care over time, we intentionally adopted it as a theoretical framework to highlights how settings align with the PCMH and where there is a need for improvement at 1 point in time. Finally, while we include people with lived experience as coauthors on this project, PCMH scores and interviews were obtained from care teams, which may not reflect the patient experience of care.

In conclusion, Canadian HIV care settings were highly committed to the domains of patient-centered care, but implementation of the PCMH was at times limited by organizational structures and processes. Lessons learned from our analysis are the need for improvements in the use of technology to improve population management and quality improvement strategies, as well as accessible mental health services to achieve better care delivery and health outcomes among PLWH.

We thank the participants who generously donated their time and filled out the survey and answered our interview questions. We are grateful to Naomi Tschirhart and Danielle Rolfe who conducted the interviews.

To see this article online, please go to: http://jabfm.org/content/32/2/158.full.

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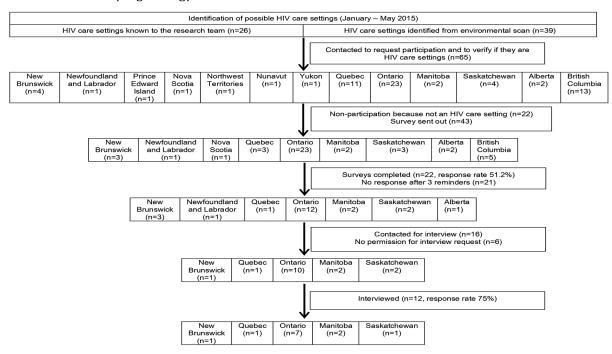
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Appendix A

Flow Chart of Sampling Strategy



Appendix B

Canadian HIV Clinic Survey

Welcome to the Canadian HIV Clinic Survey.

The LHIV Innovation Team thanks you for your interest in this important research.

This survey will take approximately 30-45 minutes to complete. You may complete it in one or more sessions.

This survey is designed to ask questions about how your team works together in caring for persons living with HIV, but also asks for specific human resources data, such as the number of patients in your clinic (HIV and other) and number and type of practitioners.

Please review the Participant Informed Consent Form (on the next page), which provides key information about the study.

The survey consists of two parts:

- Part 1 is the Patient-Centered Medical Home Assessment (PCMH-A) that has been adapted for the Canadian HIV clinic context.
- Part 2 has questions about the organization of your clinic. This survey has been adapted in part from the Canadian Institute for Health Information's' Measuring Organizational Attributes of Primary Health Care Survey and the Primary Health Care indicator Framework developed by the LHIV Innovation Team (led by, Dr. Sharon Johnston).

Your responses will be automatically saved, and you can return to your survey at any time by clicking on the link in the original email. . When you are satisfied with your responses, click "Submit" to finalize your survey.

Thank you again for your help.

Please contact XXX at XXX or toll free at 1-XXX-XXXX with any technical issues.

Note: This survey may not work properly on a cellular phone.

PART ONE – Patient-Centered Medical Home Assessment (PCMH-A)

- **DIRECTIONS** Answer each question from the perspective of one organization (e.g., a practice, clinic, hospital).
- Choose the level that best describes your organization.
- For each question, **click on** the point value that best describes the level of care that currently exists in your organization.
- Each question presents key aspects of patient-centred care. Each aspect is divided into four levels (D to A) showing various stages in development toward a patient-centered medical home.
- The stages are represented by points that range from 1 to 12. The higher point values indicate that the actions described in that box are more fully implemented.

Section 1: PATIENT ROSTERING

Components	Level D			Level C			Level B			Level A			
1. Patients	are not providers	assigned	to specific	providers b	gned to spec out patient d sed by the p tive or other	lata are not oractice for	are assig providers a routinely us mainly for s purposes.	nd patient sed by the	data are	are assigned to specific providers and patient data are routinely used for scheduling purposes and are continuously monitored to balance supply and demand.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
Registry or patient-level data		availablet ge care for pons.		manage ca	ableto asse are for practi s, but only d is.	ce		d manage copulations,					
Score	1	2	3	4	5	6	7	8	9	10	11	12	
Electronic records on individual patients		r pre-visit p	to practice planning or	but are not	able to prac routinely uning or patier	sed for pre-	and routine	ely used fo r patient or imited nun	utreach, but ober of	are availa and routine planning ar across a co diseases ar	ely used for nd patient o omprehensi	pre-visit outreach, ve set of	
Score	1	2	3	4	5	6	7	8	9	10	11	12	
Reports on care processes or outcomes of care	are not providers				are routinely provided as feedback to providers but not reported externally.			nely providers o providers kternally (e ther teams but with tea nasked.	, and .g. to or external	are routinely provided as feedback to providers, and transparently reported externally to patients, other teams and external agencies.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	

Section 2: CONTINUOUS TEAM-BASED HEALING RELATIONSHIPS

Components	Level D			Level C			Level B			Level A				
Patients are encouraged to see their own provider and/or practice team				team, but i	ractice admi is not a prior ent scheduli	ity in	priority in a scheduling commonly because o	tion team a appointmer g, but patien see other p f limited ava	nt its providers	team, is a pappointme	e practice administration a priority in ment scheduling, and s usually see their own r or practice team.			
Score	1	2	3	4	5	6	or other iss	8 8	9	10	11	12		
Non-physician practice team members	play a limited role in providing clinical care.				narily tasked patient flow		such as	some clinic assessmen ent support		perform key clinical servic roles that match their abilitie and credentials.				
Score	1	2	3	4	5	6	7	8	9	10	11	12		
7. The practice	does not have an organized approach to identify or meet the training needs for providers and other staff.		needs and appropriat	v assesses t l assures tha tely trained t esponsibiliti	t staff are or their	needs, ass appropriat roles and r provides s	assesses that stelly trained responsibility ome cross	aff are for their ties, and training to	routinely needs, ass appropriate roles and re provides co assure that are consist	ely trained tesponsibilites oss training patient nee	affare for their ies, and g to			
Score	1	2	3	4	5	6	7	8	9	10	11	12		

Section 3: PATIENT-CENTERED INTERACTIONS

Components	Level [Level B			Level A			
Assessing patient and family values and preferences	is not	is not done.			ut not used ir organizing o		is done and incorporate it organizing ca hoc basis.	in plannin	g and	is systematically done and incorporated in planning and organizing care.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
Involving patients in decision-making and care	is not a priority.			is accompl of patient edu referrals to cl	ucation mate		is supporte by practice te		umented	is systematically supported by practice teams trained in decisi making techniques.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
10. Patient comprehension of verbal and written materials	is not	assessed.		by assuring t	understand.			l and accor ti-lingual si both mate ications an guage that	taff, and rials e at a	is supporte level by trans multi-lingual in health litera techniques (s assuring that do to manage	lation servi staff, and to acy and col uch as clos patients kr	ices, hiring raining staff mmunication sing the loop) now what to	
Score	1	2	3	4	5	6	7	8	9	10	11	12	

PART 3: PATIENT-CENTERED INTERACTIONS CONTINUED ON NEXT PAGE

Section 3: PATIENT-CENTERED INTERACTIONS CONTINUED

Components	Level [)		Level C			Level B			Level A			
11. Self-management support	of inform	is limited to the distribution of information (pamphlets, booklets).			shed by ref ement class		is provided action planni the practice to	ng with me		is provided by members of the practice team trained in patient empowerment and problem-solving methodologies.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
12. The principles of patient-centered care	are included in the organization's vision and mission statement.			are a key or priority and ir and orientation	ncluded in t	raining	are explicit and performa all staff.			are consistently used to guide organizational changes and meas system performance as well as ca interactions at the practice level.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
13. Measurement of Patient Centered Interactions	is not done or is accomplished using a survey administered sporadically at the organization level.		is accompl patient repres and regularly input through	sentation or soliciting p	boards	is accomp frequent inpu and families of methods such surveys, focu ongoing patie	it from pati using a var n as point d is groups a	ents iety of if care nd	is accomplished by getting frequent and actionable input from patients and families on all care delivery issues, and incorporating their feedback in quality improvement activities.				
Score	1	2	3	4	5	6	7	8	9	10	11	12	

Section 4: ENGAGED LEADERSHIP

Components	Level	D		Level C			Level B			Level A		
14. Executive leaders		ocused on s s priorities.		an infrastr	upport and c ucture for q ent, but do i	uality		ality impro	and actively ovement	throughou review and and have and fundin explore, in	continuous at the organ d act upon a long-term ng commitr nplement a provement	ization, quality data, strategy nent to nd spread
Score	1	2	3	4	5	6	7	8	9	10	11	12
15. Clinical leaders		nittently foo ng quality.	cus on	quality imp	veloped a vi provement, process for ere.	but no	improven sometime	nmitted to a nent proces s engage to entation a solving.	ss, and eams	engage cli	ently cham inical team patient exp d clinical ou	s in perience
Score	1	2	3	4	5	6	7	8	9	10	11	12
16. The organization's hiring and training processes	defined	functions a						priority on d existing are and cre ntered cul	eate a	improvement training ar	and sustain ents in care nd incentive ling patient	through s focused
Score	1	2	3	4	5	6	7	8	9	10	11	12
17. The responsibility for conducting quality improvement activities		assigned b	oy leadership up.		ned to a gro resources.	up without	quality im	ned to an c provemen edicated re	t group who	leadership and is ma protected	d by all sta to team m de explicit time to med sources to	embers, through et and
	1	2	3	4	5	6	7	8	9	10	11	12

Section 5: QUALITY IMPROVEMENT (QI) STRATEGY

Components	Level	D		Level C			Level B			Level A			
18 Quality improvement activities		ot organize ed consist			ducted on and in reaction to roblems.				y in reaction	are based on a proven improvement strategy and used continuously in meeting organizational goals.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
19. Performance measures	are n	ot available site.	e for the		ilable for the re limited in		clinical, op experience	perational, and the measures for the prac	tice, but not	clinical, operational, and pati experience measures – and for			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
20. Quality improvement activities are conducted by		tralized co artment.	mmittee	topic sp	ecific QI co	nmittees.	all pract a QI infras		supported by	a QI infras meaningfu	teams supp tructure wit il involvemend families.	h ent of	
Score	1	2	3	4	5	6	7	8	9	10	11	12	
21. An Electronic Health Record that is Meaningful-Use certified		present or nplemente			is in place and is being used to capture clinical data.			routinely d s to provid- upport and patients.		al support population managemer			
Score	1	2	3	4	5	6	7	8	9	10	11	12	

Section 6: ENHANCED ACCESS

Components	Level [)		Level C			Level B			Level A			
22. Appointment systems		are limited to a single office visit type.			some flexib g different vi	•	provide capacity for		y and include lay visits.	are flexible and can accommodate customized visit lengths, same day visits, scheduled follow-up and multipl provider visits.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
23. Contacting the practice team during regular business hours	is diffi	icult.			the practice telephone r	•	is accor respondin the same	by tele	by staff phone within	is accomplished by providing a patient a choice between email and phone interaction, utilizing systems which are monitored for timeliness.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
24. After-hours access		available o	or limited to an e.	arrangeme standardize	ble from a co ent without a ed commun ack to the pro problems.	ication	is provide arrangement necessary provides a the practic	ent that s patient d summar	hares lata and	is available via the patient's choice of email, phone or in-person directly from the practice team or a provider closely in contact with the tear and patient information.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	

Section 7: CARE COORDINATION CONTINUED

Components	Level D)		Level C			Level B			Level A		
28 Follow-up by the primary care practice with patients seen in the Emergency Room or hospital	generally does not occur because the information is not available to the primary care team.			nly if the ER orimary care		occurs b care practic efforts to ic	e makes	proactive	the primar arrangeme ER and ho these patie	one routinely because imary care practice has gements in place with the id hospital to both track patients and ensure that up is completed within days.		
Score	1	2	3	4	5	6	7	8	9	10	11	12
29. Linking patients to supportive community-based resources	is not done systematically.		is not done systematically. is limited to providing patients a list of identified community resources in an accessible format.					plished th staff pers esponsible patients resources	on or for with	active coo the health service ag and accon	nplished the ordination be system, co encies and applished by d staff perso	etween ommunity patients a
Score	1	2	3	4	5	6	7	8	9	10	11	12
30. Test result and care plans	are not communicated to patients.			municated to		are syste communica a way that the practice	ated to par s conveni		a variety w	ematically cated to pat vays that are at to patients	е	
		2	3				7		9	10		

Section 7: CARE COORDINATION CONTINUED

Components	Level D	Level D					Level B			Level A			
28. Follow-up by the primary care practice with patients seen in the Emergency Room or hospital	generally does not occur because the information is not available to the primary care team.				only if the ER primary care		occurs b care practi efforts to i	ice makes	proactive	is done routinely because the primary care practice has arrangements in place with th ER and hospital to both track these patients and ensure that follow-up is completed within a few days.			
Score	1	2	3	4	5	6	7	8	9	10	11	12	
29. Linking patients to supportive community-based resources	is not done systematically.		a list of id	d to providin entified com in an access	munity	is accon designated resource r connecting community	d staff pers esponsible p patients	son or e for with	active coo the health service ag and accon	nplished th rdination b system, co encies and aplished by d staff perso	etween ommunity patients a		
Score	1	2	3	4	5	6	7	8	9	10	11	12	
30. Test result and care plans	are not communicated to patients.				are communicated to patients based on an ad hoc approach.			ematically cated to pa is conven e.	itients in	are systematically communicated to patients in a variety ways that are convenient to patients.			
Score	1 2 3			4	5	6	7 8 9			10	11	12	

Section 8: ORGANIZED, EVIDENCE-BASED CARE

Components	Level	D		Level C			Level B			Level A		
31. Comprehensive, guideline-based information on prevention or chronic illness treatment	is no		available in	is availal influence c		s not		ed into car	to the team and into care protocols dersguides the creation of individual-level data tha available at the time of the control of the control of the creation of individual-level data that the time of the creation of individual-level data that the time of the creation of individual-level data that available at the creation of individual-level data that		that is	
Score	1	2	3	4	5	6	7	8	9	10	11	12
32. Visits		ely focus ms of pa	on acute tient.	are orga problems I ongoing illi needs if tin	ness and p	ention to revention	are organized around acute problems but with attention to ongoing illness and prevention needs if time permits. The practice also uses subpopulation reports to proactively call groups of patients in for planned care visits.		are organized to address both acute and planned care needs. Tailored guideline-based information is used in team huddles to ensure all outstanding patient needs are met at each encounter.			
Score	1	2	3	4	5	6	7	8	9	10	11	12
33. Care plans	are or rec		nely developed	are deve but reflect only.	eloped and providers'		are developed collaboratively with patients and families and include self-management and clinical goals, but they are not routinely recorded or used to guide subsequent care.			ment and goals, and guide		
Score	1	2	3	4	5	6	7	8	9	10	11	12
34. Clinical care management services for high risk patients	are	not availa	able.	are prov care mana connection		mited	are prov care mana communio care team	igers who ate with th	regularly			nctioning as ctice team,
Score	1	2	3	4	5	6	7	8	9	10	11	12

Canadian HIV Clinic Survey Part Two

In this part of the survey, we are asking questions to understand specific ways that your clinic is organized. Please provide as much information as you can.

Choose one answer per question, unless otherwise indicated.

Section One: Population Served

1.	Which statement best represents the population that your clinic serves? Please choose one answer.
	 □ Any person living with HIV □ Members of a specific HIV population (i.e. women, MSM) □ Infected children under the age of 16 □ Service includes family members of persons living with HIV □ No restriction based on population
2.	How many patients are registered at your clinic? Please provide your best estimate.
3.	Of all the patients you serve, how many have HIV? Please provide your best estimate.
4.	Are there any comments you would like to make about the population your clinic serves?

Section Two: Clinic Attributes

1. Please identify the type of practitioners working at your clinic. Please estimate the amount of time in Full-Time Equivalent (FTE) hours each group is working each week.

Note: For each practioner type, the total FTE should not be higher than the total number of people who hold that position.

If you do not have a certain type of practioner working in your clinic please select "Not Applicable".

Type of Practitioner	Not Applicable	How many of each practitioner type work in your clinic?	What is the total FTE in your clinic for each practitioner type? (Note: 1.0 FTE = 35 hours per week or more)
Family physician			
Nurse practitioner			
Registered nurse			
Physician assistant			
Specialist physician			
(infectious disease)			
Specialist physician			
(other)			
Psychiatrist			
Psychologist			
Pharmacist			
Addictions counsellor			
Social Worker			
Peer support worker			
Dietitian			
Home care support			
person			
Dental care worker			
Occupational or			
Physiotherapist			
Rehabilitation service			
worker			
Smoking cessation			
support worker			
Clerical staff			
Non-clinical managers			
Other (please specify)			

Are there any comments you would like to make about the types of practioners at your clinic?

Section Three: Clinic Services Offered

1. For persons living with HIV that you serve, which of the following clinical tests and services are available on site?

Tests/Immunizations	Yes	No
Routine blood work		
Routine HIV blood work (CD4, VL)		
HIV resistance testing		
Rapid streptococcal test (strep test)		
Cervical smear (pap test)		
Routine immunizations		
Influenza (seasonal flu) vaccination		
Pregnancy test		
Urinalysis		
Mantoux (TB) skin testing		
Sexually transmitted infection testing		
Spot glucose testing (glucoscan)		
Services/Procedures		
Needle exchange		
Suture/minor surgery		
Musculoskeletal injection/aspiration		
IUD insertion		
Chronic disease self-management program		
Established process and resources to follow up on patients who miss appointments		

Are there any comments you would like to make about the clinic tests and services available at your clinic?

Section Four: Technical Resources

1.	In your clinic, do you have an electronic medical record system?								
	☐ Yes ☐ Planned, but not yet implemented ☐ Not Sure ☐ No								
	If yes or planned: Which EMR system do you use?								
	Are there any comments you would like to make	about usin	g an EM	—– R system?					
2.	In your clinic, do you use?								
		Yes	No	Planned	Not sure				
	ernet access for all staff								
(cc	mputerized tools to aid medical decision-making imputerized alerts and recalls, integration of nical practice guidelines)								
Εle	ectronic interface to diagnostic imaging & oratory services								
pha	electronic system to transmit prescriptions to armacies								
bo	web-based appointment system for patients to ok appointments								
	ormation technology support (on site or on call)								
	mputer software to manage appointments								
na	ique email addresses for the clinic (i.e. me@myclinic.ca)								
	tomated option to send appointment reminders patients								
Are	e there any comments you would like to make abo	ut the tech	nical res	ources in yo	ur clinic?				

Section Five: About you and your Clinic

1.	Ho	w wou	ld you charac	cterize the locale f	or your clinic?			
		City	☐ Suburb	☐ Small town	□ Rural			
2. Where is your clinic located?								
		In rer In rer In an unive	ited offices in ited offices in establishmer rsity	a commercial bui	s or of which they are Iding for health profes Iding for any type of t e publicly funded hea	ssionals ousiness	tal, etc.) or	
3.	Wr	nat typ	e of physical	locations are cons	sidered as part of you	r clinic?		
		One p	than one loca	ion but linked to a ation, but each loo	ffiliated or satellite sit ation is managed ind ation of care and adn	ependently	es between	
4.	Wr	nat fun	ding arrangei	ment best describe	es the payment mode	el for physicians in	your clinic?	
		Capit Salar Blend		, sessional payme ix of different payr	· ·			
5.	Do	es you	ır clinic receiv	ve other types of for	unding from:			
						Yes	No	
				funding/grants				
			ffing funding/					
			-pased financ search grants	cial incentives				
			e specify):	•				
				ou would like to n	nake about your clinid	c location or fundir	ng?	
1	tean	n memb	oer filled out a s	eparate form and re	or parts 1 and 2 to fill of eached consensus in a cher team members as	face-to-face meeting		

On behalf of the LHIV Innovation Team, we want to thank you for taking the time to complete this important survey.

With your help and insights, we hope to make important recommendations to improve care for people living with HIV.

Additional Request

We may wish to conduct confidential interviews with you or members of your team after the survey analysis is complete. The purpose of these interviews would be to better understand approaches to the changes needed in caring for persons living with HIV.

Online Instructions

If you choose to provide your contact information, click on the link that appears. If you select Yes, you will be directed to a new page. By clicking on the link you will not lose any of the information that you have already entered into the survey. Once you have completed the contact form, please make sure you return to submit the survey.

The information you provide on this contact form and during any follow-up interviews will not be linked to the survey responses already provided.

If you do not wish to provide your contact information, simply select No below.

Do you give your permission for us to contact you for separate, confidential interviews if needed?
□ Yes □ No

If they choose yes, there will be a link here with a pop up or automatic email (depending on the survey platform's capacity) that will direct them to answer these questions in a separate document or an automatic email will be sent asking them to complete a form with this information to be returned to the research team.

Please contact Lois Crowe at lerowe@bruyere.org or toll free at 1-855-561-6891 if you have any questions about the survey administration or technical issues.

Thank you!

Please press SUBMIT when you are satisfied with your answers.

Paper Instructions

If you choose to provide your contact information, please complete the separate Permission to Contact Form. If you choose not to provide your information, you do not need to complete the form.

The Permission to Contact Form is a separate page that will not be kept with your survey results, so the information you provide on this contact form and during any follow-up interviews will not be linked to the survey responses.

Alternatively, please first copy and paste the following table into an email, then fill in your contact information and send it to lcrowe@bruyere.org.

Permission to Contact Form

STUDY TITLE

A mixed methods study to characterize the organizational attributes and patient-centred medical home features of HIV care settings in Canada. (OHSN #20140649-01H, Bruyère #M16-15-011)

Thank you for agreeing to be contacted for separate and confidential interviews.
Please tell us the best way to contact you. Please note that the information you provide will be kept confidential and that your name or the clinic name will never be released in any report or publication. Any contact information you provide will not be linked to your survey responses.
*Indicates a Required Field
Clinic Name: Clinic Address: Main Clinic Location (street address, city, province, postal code):
*Your Name (the name of the person completing the survey): Your position in the clinic: Your phone number: Your alternate phone number: Your fax number: *Your email address:
*I prefer to be contacted by □ phone □ email □ fax

Appendix C

Interview Guide Questions

Study Title

A mixed methods study to characterize the organizational attributes and patient-centred medical home features of HIV care settings in Canada

Research Question

What are the organizational attributes of HIV clinics in Canada?

INTERVIEW SCRIPT/GUIDE

Introduction

You are being invited to participate in a 1 hour telephone interview because you are a member of a clinic team that cares for persons living with HIV, and you provided your contact information in the event that we wanted to explore in more detail the answers you gave in the online survey you completed last summer/fall/winter.

Participation in this telephone interview is voluntary. You can still choose not to participate without affecting your current or future employment. The same privacy protections that were in place during your participation the survey portion of the study apply to this interview; all interview data will be coded with your unique study number and will not contain any information that identifies you. You will be compensated \$75 for your participation in this telephone interview.

Below is the Telephone Interview Script that will be used. We are sending this to you now so you have time to think about the discussion topics. You will be contacted in the coming weeks. If you do not wish to participate in the Telephone Interview simply let us know by replying to this e-mail. The choice of interviewer will be determined before interview guide is sent out. There will be one interviewer per person.

Interviewer #1

My name is [Name] and I will be the person who will interview you. I am a [Job Title] with the "Advancing Primary Health Care for Persons Living with HIV" Innovations Team. If you have any questions, please do not hesitate to contact me at 1-855-561-6891 (toll free) or by email at [Email Address].

Please note that we will be recording this interview. After the interview is over, we will transcribe the session so the conversation can be analyzed using a special software package (NVivo version 10 or 11). The recordings will be kept for 10 years after study completion. The recording will be stored on the secure server at Bruyère Continuing Care, a hospital in Ottawa. Only the research staff directly involved in the research and the transcriptionist will have access to the recording. You will not be identified by name in any report or publication arising from this interview.

Your perspective in understanding how HIV care is delivered in Canada and how your clinic provides this care is important. There are no right or wrong answers. Although we have prepared a few questions to

lead the discussion, we would like to have an open, informal process so we can follow up on different directions the conversation might take.

Background

Sixty-five thousand Canadians live with HIV and this prevalence is increasing as people being treated live full life spans. In Canada, HIV has been managed largely by specialists and providers in HIV-focused practice rather than by general primary care providers.

Advances in treatment have brought new challenges: diseases of aging such as diabetes, cardiovascular disease, and cancer are now common among people living with HIV. The way that HIV care has been organized and delivered in Canada may no longer meet the needs of this population.

Our team has been awarded 2.5 million dollars from the Canadian Institutes of Health Research. The goal of this program of research is to develop strategies to improve the chronic disease management of persons living with HIV.

The focus of this interview is to better understand the answers given in the first part of the survey you completed, which was the Patient-Centred Medical Home (PCMH) survey developed in the United States and adapted for the Canadian HIV clinic context. This survey was developed to help systems and provider practices move toward the "state-of-the-art" in delivering patient-centered care in the context of a medical home. The PCMH-Assessment queries clinics on their capacity in the following areas: patient rostering, team-based relationships, patient-centered interactions, team leadership and quality improvement strategy, patient access, coordination of care and use of organized and evidence-based care.

Do you have any questions before we begin?

Questions

- 1. Can you tell me a little bit more about your role in the clinic? How active are you in providing care to persons living with HIV?
- 2. The on-line survey we conducted asked a number of questions about your clinic's ability to provide patient-centred care. We know that patient-centred care means different things to different people, and we are interested in how you would describe what patient-centred care means to you?
 - a. For patients, it might mean that they are treated as a whole person, and that the care they receive reflects their values and preferences.
 - b. Clinicians may view patient-centredness as advocating for their patients to ensure their health care needs are met.
 - c. Clinics and health care organizations might describe themselves as providing patient-centred care when they include patients in their decision-making, and use the results of patient surveys to inform their decisions.

- d. Policy makers sometimes describe patient-centredness as a measure of health system performance or as a principle to strive for when designing health services within the budgets they have been allocated.
- e. Public health practitioners may feel that patient-centredness should be less concerned with meeting the desires of individual patients and more concerned with addressing the social determinants of health, which they argue would prevent many citizens from becoming patients in the first place.

Source: http://healthydebate.ca/opinions/patient-centred-mean-achievable

- 3. Can you tell us about how your clinic approaches patient-centred care? Would you mind sharing some examples?
- 4. A patient with stable HIV comes into your clinic to meet with a physician or team member. Can you describe what services are available? What are some of the strategies you and your team use to help your patients access necessary services? Can you share some examples?
 - a. How do you ensure they have access to up-to-date pharmacy advice, or provide support for acquiring medications that are too expensive for them?
 - b. How do you link them with primary health care/specialty care for their other co-morbid conditions, such as diabetes or other chronic health disease?
 - How would they access mental health services, or peer counselling support programs?
 - d. Do you offer any on-site or access to community-based chronic disease self-management programs?
 - e. How do you support sub-populations of people with HIV (i.e. low-income, women, refugees/immigrants), to navigate the different services?
 - Do you have any specific protocols in place to support patient privacy, particularly for someone living with HIV, given the significant stigma attached to this disease?
- 5. What is the role of senior managers or leaders in building effective team-functioning in your clinic?
 - a. How are care/administrative decisions made in your clinic?
 - b. If these leaders were more engaged on a day-to-day basis, how might this affect functioning in the clinic?
 - c. How could the role of management be improved?
- 6. If you could set up a patient-centred care system for people living with stable HIV, what would it look like? How would your clinic need to change?

We will be publishing the results of this study in scientific journals and will present the results in different places such as presentations at scientific conferences, postings on our website (www.lhiv.ca), and sharing results with our partners. We are asking everyone who participates in these interviews if you would like the opportunity to review or comment on the findings before they are published. Are you interested?

Thank you for agreeing to speak with our team. Your perspectives will help shape the recommendations we make to decision-makers about the best way to provide care to persons living with stable HIV.