The ART of conversation: feasibility and acceptability of a pilot peer intervention to help transition complex HIV-positive people from hospital to community

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ABSTRACT

Objectives To pilot a peer-based intervention for people living with HIV who used substances, had challenges with antiretroviral adherence and would be discharged from hospital to community.

Study design A community-based, quasi-experimental pilot intervention study designed to assess feasibility, acceptability and connection to a community-based HIV organisation.

Setting This study was conducted in Toronto, Canada, at Casey House (CH; hospital for people living with HIV) in collaboration with the AIDS Committee of Toronto (ACT; community-based HIV organisation).

Participants People living with HIV who were CH inpatient between 1 April 2017 and 31 March 2018, struggled with antiretroviral adherence, actively used substances and would be discharged to community were eligible. Forty people met criteria, 19 were approached by an inpatient nurse and 17 consented. Average age was 48.8 years (SD=11.4), 58.8% were male and participants averaged 7.8 physical and mental health comorbidities (SD=3.1).

Intervention Titled ‘The ART of Conversation’, the three-pronged personalisation intervention was developed through input from CH clients and ACT volunteers, all living with HIV. Intervention components were (a) predischarge goal-setting (adherence, substance use and self-identified goal) with the study nurse; (b) predischarge meeting with an HIV+ peer volunteer (PV) and (c) nine postdischarge phone calls between PV and participant, once per day for 3 days, then once per week for 6 weeks.

Primary outcomes Feasibility was measured through proportion of eligible participants recruited and PV availability. Acceptability was assessed through participant interviews at three times (preintervention, post-intervention and 6 weeks follow-up) and through PV call logs. Client records determined connection to ACT within the study timeframe.

Results Twelve participants completed the intervention and nine connected with ACT. Predischarge goal-setting and PV meeting were both feasible and acceptable.

INTRODUCTION

Hospital discharge can result in discontinuity of care, non-adherence to medications and other negative outcomes, especially for people living with HIV who face complex medical and psychosocial challenges. Medical and psychosocial complexity is multiple, overlapping issues that affect a person’s health. People living with HIV may experience complex medical issues (eg,
frequent hospitalizations, poor medication adherence, polypharmacy and concurrent comorbidities). Psycho-
social factors may overlap with health challenges (eg, increased substance use, homelessness, unemployment, social isolation and food insecurity). These complex difficulties can interrupt the cascade of care and increase the risk of mortality; in particular, substance use is a priority area of focus for care retention interventions.

The cascade of care (ie, HIV treatment cascade or the HIV care continuum) is a framework recommended by UNAIDS for member countries to measure their progress in ending the AIDS epidemic. Individual countries, and individual states and provinces within those countries, have adapted this continuum to fit their local contexts and consulted patients in its local implementation. However, a common end point is universal among these frameworks: retention in care (ie, attending regular medical appointments and accessing community supports) and maintaining viral suppression (<50 copies of HIV per millilitre of blood, meaning that people living with HIV cannot sexually transmit the virus). Complex clients living with HIV are often hospitalised to readhere to medications and progress on the care cascade; however, the discharge transition can cause cascade regression and poor health outcomes. ‘Peer’ interventions, provided by trained community members who share lived experience with clients, may be a helpful and cost-effective complement to outpatient clinical care in order to help people living with HIV maintain the health progress that they achieved in hospital.

Meaningful involvement of people living with HIV as peers has been central throughout the history of HIV and AIDS. From the first cases of AIDS to the present day, people living with and affected by HIV have been forming community-based agencies and implementing peer-based models of care. Yet, peer models are understudied among people living with both HIV and complex issues; most work focuses on prevention in the HIV-negative population or a single issue (most commonly, medication adherence) in the HIV-positive population. Peer interventions that address the more complex realities that some people living with HIV experience are recommended in policy, especially ones that improve linkages between clinical and community-based care.

To design a peer intervention that could help people living with both HIV and complex issues in the transition from hospital to community, we used the theories of Community-Based Participatory Research (CBPR) and Minimally Disruptive Medicine (MDM). CBPR recommends the equitable involvement of the client population in the design and conduct of a study, which aligns with this study’s aim to pilot a peer intervention. MDM suggests that new interventions may have better results when designed to fit within the context of people’s lives.

In this study, CBPR was utilised through extensive consultation and involvement of people living with HIV where the recommendation for the study’s intervention—goal setting, peer meeting and postdischarge phone calls—was designed to be minimally disruptive and well acceptable to participants.

With the context of the study’s setting at Casey House (CH), a 14-bed HIV hospital with an average 45 days inpatient admission, and funding (1 year CBPR grant), a quasi-experimental pilot was developed to test peer intervention components for feasibility and acceptability.

Objectives

This study had two objectives. First, to pilot test a peer-based intervention for people living with HIV who had challenges with antiretroviral adherence and substance use and would be discharged from hospital to community; this study of feasibility and acceptability was conducted to determine whether intervention components could be applied in a larger trial. Second, to connect participants to the AIDS Committee of Toronto (ACT)—Canada’s largest community-based HIV organisation—for further postdischarge support. As this is a peer intervention, patient and public involvement (PPI) was prioritised so that people living with HIV had an active role in the study’s design and conduct.

Study settings

This study was conducted as a partnership between CH and ACT in downtown Toronto, Canada. CH is Canada’s only standalone hospital for people living with HIV. CH has 14 inpatient beds for subacute, palliative and respite care. Inpatient admissions average approximately 45 days due to mortality risk among most patients. CH also offers community programmes, and during the operation of this study launched a day health programme to better support adults living with HIV and complex health and psychosocial conditions. ACT is Canada’s largest community-based HIV/AIDS organisation and offers prevention (ie, safer sex outreach) and support (ie, counselling, groups) for people living with and affected by HIV. CH was responsible for chart abstraction, goal setting and hosting the peer meeting. ACT was responsible for enrolling participants, training and supervision of PVs and coordinating connection to community-based care.

METHODS

This study used descriptive quantitative data and qualitative methods to evaluate feasibility and acceptability, and linkage to community supports of a pilot peer intervention that involved people living with HIV in the study’s design and conduct.

Study design

Participants were enrolled into a personalised three-stage peer-based intervention. Approximately 40 people were included in the sampling frame (see the Participant flow section). Neither randomisation nor a control group was feasible due to the limited sampling frame and 1 year timeline.
Patient and public involvement

People living with HIV became involved in this study as the concept was being developed and were engaged in four distinct activities. First, a community-based exploratory study interviewed CH clients about the discharge transition and found that participants were requesting peer support. Second, two CH client engagement sessions (n=17, all HIV-positive) were held regarding the structure of a postdischarge peer programme, including, duration, content, definition of ‘peer’, how peers should be trained and how the pilot should be evaluated. CH clients living with HIV identified that postdischarge phone support could be easier to access than an in-person peer meeting. Third, a group consultation was held with ACT volunteers (n=10) who live with HIV and who provide direct service (eg, support groups). This consultation discussed the peer programme requested by CH clients, programme structure, evaluation methods including draft questionnaires and whether attendees would engage with the study as a peer volunteer (PV) (delivering the intervention) or peer researcher (interviewing participants and analysing data). Fourth, one more CH client session (n=6) was facilitated by a peer researcher to continue developing the study questionnaires and intervention details. Based on these consultations, we defined ‘peer’ as a person living with HIV who has personal or relational experience with substance use. There were two distinct groups of peers in this research team: (a) peer researchers and (b) PVs.

Five peer researchers attended a 1.5-day, 11.5-hours training; the curriculum has been published elsewhere. The main training component was filmed simulation, where peer researchers were video-recorded conducting simulated interviews to observe their verbal and non-verbal interactions. Peer researchers refined the study questionnaires, collected all data and participated in the analysis.

Five PVs from ACT delivered this intervention. These volunteers completed a total of 44 training hours. The first 22 hours were dedicated to ACT’s core skills volunteer training which covers creating safe and accessible spaces, HIV and health promotion basics, concepts in communication and anti-oppression and cultural competence. The volunteers then attended 22 hours of training specific to the intervention which focused on harm reduction, structuring a phone call, communication tools and self-care.

Participants

An inpatient nurse at CH identified people living with HIV who met inclusion criteria (based on admission details) and approached them regarding their interest in learning more about the three-stage peer programme. If people were interested, the principal investigator then met them for enrolment.

Eligibility criteria

Inclusion criteria

People who were HIV-positive; actively used illicit substances (eg, cocaine and crystal meth); inpatient at CH between 1 April 2017 and 31 March 2018; initiated/restarted antiretroviral therapy while they were inpatient at CH; were discharged back to the community; English-speaking; could access a phone; and provided informed consent.

Exclusion criteria

People who were at risk of mortality.

Participant identification and consent

A study nurse (fourth author) identified participants based on their admission presentation (ie, identified substance use and ART initiation/re-initiation). The nurse approached participants to introduce the study and, if they were interested in learning more, then referred them to the principal investigator (first author) for consent. To participate in the study, participants consented to the research and to becoming ACT clients. The consent process also involved discussion with participants of preferences regarding PV matches (eg, schedule).

Intervention

The intervention consisted of three distinct stages. Participants set discharge goals with the recruiting nurse, then met with a PV prior to discharge. Following discharge, participants scheduled nine phone calls with their PVs over 7 weeks.

Goal-setting

The study nurse met with participants during their inpatient admission to help them identify three goals that they wanted to achieve after discharge. A nurse was chosen to complete this activity as a means of bridging the clinical care that participants had received in hospital, with the peer support that they would be receiving after discharge. The nurse was trained in motivational interviewing (ie, client-centred counselling to elicit positive goal-setting) and harm reduction principles (ie, stating that participants could set substance use goals concerning reduced or safer use, not solely abstinence). One goal was related to their ART adherence, another related to their substance use and a third personal goal. These goals were written on a Community Transition Planning (CTP) form (see online supplementary file) that was designed based on principles of motivational interviewing, whereby the facilitators and barriers to a goal are thoroughly discussed. Participants identified the change they wanted to make, the steps necessary to make this change, support people (both personal and professional supports), their importance and confidence at making the change, and significant events that would occur following discharge. Goal-setting occurred 1 week prior to discharge, and typically lasted half an hour. The forms were shared with PVs prior to their meetings with participants.

Peer volunteer meeting

The principal investigator matched a PV with a participant, based on participant requests (eg, similar substance use history, length of time living with HIV and gender). The dyad met at CH to discuss the participant’s CTP form,
how the participant was feeling about leaving hospital and the details of phone support (eg, when to call and what to talk about). Discharge goals were further refined in this meeting. PVs were encouraged to self-identify shared experiences that might be relevant (eg, substance use). This meeting occurred in the week leading up to discharge and usually took 45 min.

Postdischarge phone calls
The PV phoned the participant once per day for the 3 days following discharge, then once per week for the following 6 weeks. This schedule was determined through client consultation; people living with HIV stated that the first 72 hours following discharge were the most difficult and when their risk of relapse was highest. Calls commonly lasted 20–45 min and focused on discharge goals and other issues arising for participants, with a focus on connection to community-based services.

Outcomes
The outcomes and measures are detailed in table 1. Feasibility was measured through (a) the proportion of eligible participants who were recruited, consented and completed the study and (b) PV availability. Acceptability was assessed through participant interviews at three times (predischarge, postintervention and 6 weeks follow-up) and through logs written by PVs following each phone call. Connection to ACT (ie, linkage to community supports) was determined through a search of client records to see if participants accessed any ACT service (such as counselling or support groups) within 13 weeks after discharge.

Sample size
A sample size of 15 was selected for feasibility as (a) CH has an average 80 discrete admissions annually; (b) a clinical estimate based on retrospective chart review found that approximately half of admissions met this study’s criteria; (c) the hospital moved locations during our recruitment year, disrupting recruitment for approximately 1 month and (d) based on existing pilot studies, this sample size would allow the team to assess the feasibility and acceptability of intervention components across diverse experiences.

| Table 1 Outcomes and measures |
|-------------------------------|
| **Outcomes** | **Measures** | **Description** |
| Feasibility | Participant recruitment and retention | Proportion of eligible participants who were recruited, consented and completed the study |
| | PV availability | Ability to match PVs with participants |
| Acceptability | Semistructured interviews at three times, conducted by peer researchers | Interview 1: Following PV meeting, prior to discharge |
| | | Interview 2: Programme conclusion (7 weeks after discharge) |
| | | Interview 3: Follow-up (13 weeks after discharge) |
| | Contact logs | Reports from PVs following each phone call |
| Connection to ACT (ie, linkage to community supports) | Client records | Participants accessing an ACT service (eg, counselling and support groups) within 13 weeks after discharge |

ACT, AIDS Committee of Toronto; PV, peer volunteer.
Participant flow

Figure 1 shows the flow of participants throughout the study. Of the 90 discrete inpatient admissions at CH during the recruitment period, 73 were excluded due to (a) an eligibility review of admission presentation, namely mortality risk (n=21) and unidentified substance use (n=40); (b) death in hospital (n=10) and (c) declining to participate (n=2). Mortality risk was determined by an admission for palliative care or when the clinical team determined that a person was too medically unstable to participate. Unidentified substance use means that neither inpatients themselves nor their referring clinician identified substance use at admission.

Recruitment

A CH nurse approached people who (a) were inpatient at CH during the period of 1 April 2017 to 31 March 2018 and (b) self-identified substance use and challenges with antiretroviral adherence. Nineteen people were approached and two declined, leaving 17 consenting to participate. Follow-up occurred 7 weeks following discharge (second interview) and 13 weeks following discharge (interview three), with the final interview occurring on 11 July 2018. The pilot programme ended at this time due to the 1 year funding agreement.

Baseline data

Participants were predominately male (58.8%, n=10) and had an average age of 48.8 (SD=11.4) years. Comorbidities (M=7.8, SD=3.1) most commonly were cancer, hepatitis C and COPD; participants also had mental health diagnoses (M=3.2, SD=1.5), most commonly mood disorders (eg, bipolar disorder and depressive disorders) and organic mental disorders (eg, HIV-associated neurocognitive disorder). Substances identified were mostly cocaine (47.1%, n=8), opioids (29.4%, n=5) and crystal meth (29.4%, n=5). Participants were in hospital for an average of 44.3 days (SD=42.4) and were taking an average of 11.8 (SD=6.2) medications at discharge. Refer to table 2 for further participant characteristics.

Numbers analysed

For feasibility, results are presented against a denominator of 19 (number of participants approached); this includes 2 people who declined to participate and 5 who did not complete the intervention. For acceptability, a denominator of 12 is used as this number of people participated in all intervention components and completed follow-up interviews.

OUTCOMES

The intervention was feasible to recruit and coordinate, and led to participant connection to ACT services. The first two intervention components (goal-setting and PV meeting) were highly acceptable to participants, while the third (post-discharge phone calls) was well received by half of completers but the other half had challenges.

RESULTS

The participant flow and characteristics are presented, followed by numbers analysed and outcomes concerning the feasibility and acceptability of intervention components. Participant quotes include a unique identifier and gender.

Data analysis

Research assistants (authors 10–12) transcribed interviews and entered data. The entire team held three iterative analysis meetings (4 hours each) to read through the data and apply content analysis. Content analysis, as used in other qualitative assessments of intervention research, included discussion on how findings corresponded to the study’s objectives, and which quotes illuminated the facilitators and barriers of each intervention component. Contact log data are presented as a spaghetti plot; while the sample size limits our ability to interpret these findings, they provide context for the quotes.

Figure 1  Participant flowchart.
engaging by phone. PPI contributed positively to study outcomes. Throughout the interviews, participants stated how much they appreciated that people living with HIV collaborated in the study’s design, delivered the intervention and conducted their interviews.

Feasibility
Overall, 63.1% (n=12) of participants who were approached completed the intervention. Within a 1 year recruitment timeline, 5 PVs were matched with 16 participants (ie, each volunteer had approximately three matches); there was only one instance where no volunteer was available to be matched with a participant. PPI may have contributed to ease of recruitment, as potential participants had heard about the study and contributed to its design. PVs received modest compensation at $150 per match.

Acceptability
The goal-setting and peer meeting components were acceptable to participants, with strong participation and positive feedback in interviews. Post-discharge phone calls were a challenge, as half of the participants who participated in this component (n=6) lost their phones, changed their numbers and/or did not answer at some point over the 6 weeks of the programme. This left six participants completing all nine calls as scheduled. From the 12 participants who engaged with phone calls, the mean number of calls per match was 5.8. Acceptability results for each intervention component are detailed below.

Goal-setting acceptability
Most participants (n=15) identified goals for the 7 weeks after discharge related to (1) antiretroviral adherence, (2) substance use and (3) a personal goal (most commonly, housing and social connection). Participants rated their importance and confidence of each goal on a scale from ‘1’ (not at all) to ‘10’ (very much); figure 2 shows these results.

Participants expressed a high degree of confidence in achieving their adherence goals, despite a reported history of challenges. Substance use goals were primarily abstinence based and had the lowest confidence of success. Open-ended goals were identified as the most important and primarily focused on improving living

### Table 2

| Characteristic                     | N (%)/Mean (SD) |
|------------------------------------|-----------------|
| Gender                             | Male 10 (58.8)  |
|                                    | Female 7 (41.2) |
| Age (years)                        | 48.8 (SD=11.4)  |
| Income source                      | Ontario Disability Support Program (ODSP) 11 (64.7) |
|                                    | Other 6 (35.3)  |
| Employment status                  | On disability 11 (64.7) |
|                                    | Unemployed 6 (35.3) |
| Comorbidities                      | Mental health diagnoses 3.2 (SD=1.5) |
|                                    | Total comorbidities 7.8 (SD=3.1) |
| Housing prior to admission         | Independent living 9 (52.9) |
|                                    | Supportive housing 5 (29.4) |
|                                    | Shelter 1 (5.9)  |
|                                    | Street-involved 1 (5.9) |
|                                    | Rooming house 1 (5.9) |
| Housing following discharge        | Independent living 9 (52.9) |
|                                    | Supportive housing 6 (35.3) |
|                                    | Rooming house 1 (5.9) |
|                                    | Unknown 1 (5.9)  |
| Reason for admission               | ART re/initiation 7 (41.2) |
|                                    | Psychosocial issues 5 (29.4) |
|                                    | Acute medical condition 2 (11.8) |
|                                    | Respite 2 (11.8) |
|                                    | Postsurgical recovery 1 (5.9) |
| Years living with HIV              | 16.2 (SD=9.1)   |
| CD4 (n=14)                         | >500 5 (35.7)   |
|                                    | 200–500 4 (28.6) |
|                                    | <200 5 (35.7)   |
| Substances identified (most common)| Crack cocaine 8 (47.1) |
|                                    | Opioids 5 (29.4) |
|                                    | Crystal meth 5 (29.4) |
|                                    | Total number of medications at discharge 11.8 (SD=6.2) |
| Postdischarge care                 | Family doctor 17 (100) |
space and social connections. One participant described the goal-setting process as follows:

[The nurse and I] went over my needs and my goals. Where my frame of mind was at. What things did I think would help me turn this rig around, kinda? [The nurse] figured who I could see to help me along the way...she was top shelf, y’know?... Like hey, yeah, she let me talk and she let me kind of lead the way and then she wrote down [my goals]. It [took] about twenty minutes, and then again after she wrote everything down and she filled out her form, then came back and showed me...to verify she had captured everything (P15, male).

Another participant talked about how familiarity with the nurse helped the goal-setting process:

Me and [nurse] have always gotten along great. Well, I get along with all the nurses but there’s a couple that I can talk to about anything and she’s one of them...it made me think, let’s try this [program]. Give it a fair shot (P16, female).

Peer volunteer meeting acceptability
Thirteen participants met with an ACT PV at CH, following goal-setting and prior to discharge, to discuss upcoming discharge, goals and to make a plan for post-discharge phone calls. Participants appreciated the opportunity to meet with a peer; this was their first non-clinical service interaction during their hospital stay. As one person said, ‘He told me where he’s at...and I shared a bit, [I was] thinking this guy is going to be a counsellor...and then I realized, huh, this guy’s on my level’ (P3, male).

In the consultations with people living with HIV to design this study, the issue of demographics was raised regarding whether people would be able to connect across ages, genders, etc. Participants felt comfortable connecting with their volunteer regardless of these identities, with one participant saying

I wasn’t expecting somebody that young to be able to interact with me and understand me...I was even more comfortable when she told me she had HIV. And then I forgot all about [demographics], like we started talking you know she knows how to interact. It’s not a thing anybody can do. It’s not just about asking the questions it’s about making the person feel comfortable and she did that with me (P6, female).

Postdischarge phone call acceptability
PVs phoned participants once per day for the first 3 days following discharge, then once per week for the following 6 weeks. The phone calls were the most challenging component of this intervention as half of the participants lost their phones, changed their numbers and/or did not answer at some point over the programme’s duration. Participants engaged well while on the phone, speaking with PVs about their discharge goals, other issues in their lives and how to improve their health and social engagement.
Some participants appreciated the flexibility of phone calls and felt they could engage with a PV in this manner, as one person said:

The way we were able to interact, communicate, understand. It was like he understood everything I was saying and I understood everything he was saying. And it was great. I couldn’t imagine not having someone like him. Yes, because it made me think, how do I explain it, in the last few years, I’ve been stuck in a hole. Like it just flew, no one to talk to, not one to help, nowhere to reach out, no nothing. When [Volunteer] came along it was like having a peer in a different type of background and culture (P9, male).

Phone calls occasionally occurred at important times for participants, as shown in the following quote:

A lot of the time I couldn’t get in touch with my [in-person outpatient supports] but my peer would call me every week, she was a big help. I almost had a few relapses, but I didn’t [relapse]. Actually it was my peer, once I was about to use and she called me! It was so weird, but in a good way. I told her I really need this call right now (P13, female).

Other participants indicated that the phone calls felt impersonal and that in-person peer support was preferable, with a participant saying 'I’m just not a phone person… I don’t know, I just can’t. It’s easier [in-person], you don’t really know somebody [over the phone]' (P1, female).

Figure 3 displays the Visual Analog Scale results from the PV call logs. Overall, the most difficult period was 1–2 weeks postdischarge with participants improving by 5–6 weeks after leaving hospital. Participants who were lost to follow-up were rated lower than people who completed the programme.

**Connection to ACT**

Over half (57.9%, n=11) of the total sample connected to ACT services. Interestingly, two participants who did not complete the intervention (one was lost to follow-up and we were unable to match the other with a PV) still connected to ACT. ACT services that participants accessed included counselling, support groups and lunch programmes.

**Harms**

There were no reported study-related harms.

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**Figure 3** Peer volunteer assessment of participants following each call.
DISCUSSION

The principal findings of this pilot are as follows: (a) predischarge goal-setting and a PV meeting were feasible and acceptable for a sample of people living with HIV and complex needs; (b) while some participants appreciated postdischarge phone calls, others experienced barriers to this method of engagement and (c) a clinical and community-based HIV organisation can partner for improved connection to care.

Compared with other studies, a strength of this study was its substantial involvement of people living with HIV at multiple stages. This PPI approach may have made recruitment easier and contributed towards the positive experience that participants had with multiple intervention components. Another strength was this study’s focus on people with complex needs; participants averaged eight comorbidities (eg, AIDS, cancer and hepatitis C) and are commonly lost to follow-up from outpatient clinical care at CH, so the finding that 65% (n=11) connected with ACT services suggests that peer support can be a helpful catalyst in the discharge transition.

For clinicians, this study presents two intervention components—predischarge goal setting and peer meeting—that can be feasibly incorporated into practice at low cost and time commitment, which may ease the discharge transition for people experiencing complex medical and psychosocial needs. For policymakers, this study responds to a call for greater collaboration between clinical and community-based care by highlighting how a hospital and a community agency can partner to provide peer support.

The goal-setting and peer meeting intervention components need to be tested in a larger trial with greater rigour and a sufficient sample, using standardised measures, to properly ascertain their effectiveness. A larger study should consider results from other peer support trials, such as a null effect on antiretroviral adherence due to low-intensity (ie, phone support) interventions and significant results in adherence and care retention through home visits. Future research on postdischarge peer support with a complex population group should therefore explore more intensive supports than weekly phone contact; in-person follow-up, whether meeting in social spaces (such as coffee shops), home visits or outpatients returning to hospital for postdischarge peer groups could be combined with phone calls as more supportive methods of retaining people in care.

LIMITATIONS

This study has several limitations. Without randomization and control and with a small sample, there remains uncertainty regarding the two promising intervention components (goal-setting and peer meeting). Other peer support studies have found significant effects in larger samples by focusing on a single issue of concern. A PPI limitation was the mixed results from the postdischarge phone calls. Phone support had been specifically requested from current and former CH clients living with HIV, during our consultations to design this study, as they perceived it to be a convenient and minimally disruptive way of accessing peer support. There is a risk of selection bias as eligible participants who were at risk of mortality were not approached. PV assessments of participants may have been biased, likely in the direction of showing positive change. Incomplete participation among a small sample requires that the results be interpreted with some caution.

APPPLICABILITY

The goal-setting and peer meeting components show preliminary promise for easing the discharge transition for people living with HIV and complex needs. These components could be more rigorously tested by other hospitals, where peers can be adequately trained and supported, to address high rates of lost-to-follow-up and eventual readmission for complex clients.

INTERPRETATION

While there is some uncertainty regarding this study’s benefits, we found no evidence of study harm. Peer support has been found effective on single issues regarding HIV (such as medication adherence); this study’s attempt to pilot peer support regarding more complex needs is a first step towards better supporting the more marginalised people living with HIV who require more targeted support than is currently offered. This study’s positive results with connection to ACT services aligns with other studies that found improved care engagement as a result of a peer intervention. Qualitatively, this study’s participants expressed views similar to other peer intervention studies regarding the ease of speaking with a peer and the benefit of shared experience. However, this study found that PVs and participants were able to connect despite differences in age, health status and other demographics, which differs from other studies that recommend peers share as many subgroup characteristics as possible.

The PPI approach helped facilitate study recruitment and the first two intervention components, yet the third component (postdischarge phone calls) received mixed results despite its PPI influence. Given this study’s results and in-person peer support showing better outcomes than postdischarge phone calls in other quasi-experimental studies, a future postdischarge peer support study could combine phone and in-person meetings. Multiple methods of engagement may be more acceptable to participants and contribute to greater completion rates, which could lead to better outcomes.

CONCLUSION

This pilot study presents two intervention components (goal-setting and PV meeting) that have preliminary proof-of-concept in easing the discharge transition and connection to community-based care for people living with HIV and complex needs. More research is needed to
determine the ideal form of postdischarge peer support for this population.

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**Contributors** ADE oversaw all study activities, supervised personnel, consented participants, led the analysis and interpretation of results and wrote the first draft of the manuscript. SCC led patient engagement activities and co-led analysis and interpretation of results. SLC co-led analysis and interpretation of results and met monthly with ADE and SCC to discuss study progress. ET facilitated participant goal-setting and coordinated peer volunteer meetings and discharge timing. JWMC, DMC, WW, LZ and KB contributed to study design and collected data. GFG, GAW and MM prepared data for analysis through transcription and data entry. AB and NB trained peer volunteers with ADE. CS and AS contributed to study design and analysis. All the authors co-conceptualized the study, contributed to analysis, critically reviewed the manuscript and approved the final submitted version of the manuscript.

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**Data sharing statement** Data not reported in this article (ie, de-identified interview transcripts) may be available, pending consultation with the University of Toronto’s HIV/AIDS Research Ethics Board (REB). Data requests may be sent to the principal investigator at andrew.eaton@utoronto.ca, who will consult with the REB.

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