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**THE WELL-BEING OF
PEOPLE LIVING WITH HIV/AIDS (PHAs):
THE IMPACT OF SERVICES PROVIDED BY
ONTARIO AIDS NETWORK (OAN)
AND AIDS SERVICE ORGANIZATIONS (ASOs)
FOR PEOPLE LIVING WITH HIV/AIDS (PHAs)**

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DEFINITION OF TERMS

PHA: Person (or people) living with HIV/AIDS (at any stage of HIV disease).

OAN: Ontario AIDS Network. The Ontario AIDS Network can mean either the body of 54 member groups that comprise this association of AIDS Service Organizations OR it can refer to the office of 5 staff members and the Skills Program, Community Based Research Capacity Building Project, and PHA Program that they administer and implement.

ASO: AIDS Service Organization

CBO: Community Based Organization. In this particular survey CBO means a not-for-profit, Ministry of Health funded non-institutional organization. In this survey this includes anything from a food bank or local YMCA, to an ASO and an OAN member group.

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ABSTRACT

This study examined the impact of the services provided by the Ontario AIDS Network (OAN) and other Community-Based Service Organizations (CBOs) on the overall health of People Living with HIV/AIDS (PHAs) and expenditures for their use of all other (non OAN/CBO) health and social services. The historic cohort analytic survey included 363 People Living with HIV/AIDS in both rural and urban areas of Ontario, Canada. Community-Based Organizations versus OAN services were being utilized most intensely by PHAs with depression, with low salary income, those receiving Ontario Disability Support Payments (ODSP), and those that consume high levels of health and social services. A greater proportion of PHAs using Ontario AIDS Network Services with or without Community-Based Organizations were less depressed than those not utilizing these services. Those individuals without depression used a greater amount of service provided by other community-based not-for-profit organizations or paid for the services they required. Services for PHAs with depression accrued to the publicly funded health, social, and corrections budget. The OAN and the community-based agency partners have an important role to play in considering strategies for addressing PHA depression, disability, poverty, housing, employment, and retraining.

BACKGROUND

The Ontario AIDS Network (OAN) Program for Persons Living with HIV/AIDS (PHAs) provides education, skills building, peer support as well as peer networking for Ontarians. The OAN also provides capacity building and interagency cooperation for Community Based Organizations (CBOs), which consist largely of AIDS Service Organizations (ASOs). Provincially funded CBOs in Ontario, Canada provide support, advocacy, and assistance with quality of life issues, risk reduction through public education, awareness methods, and equitable service accessibility for PHAs.

More specifically, these ASOs provide services that may include individual counselling information, skills development, financial support, referrals, and help with issues requiring advocacy for People Living with HIV/AIDS. The services are primarily client driven and are provided in person, via telephone and e-mail, in client's homes or at the service setting. Various levels of intensity of CBO support/counselling services are provided in response to a range of diverse needs in a large urban-rural catchments area. There has been no published study of the characteristics and well being of PHAs using or not using these services in Ontario, or elsewhere. A seminal review of the methodology used in HIV/AIDS impact studies (Booyesen and Arntz, 2003), suggests a greater need to: understand client perceptions and behaviour in seeking care and support in urban vs. rural contexts; examine the role of community-based and non-governmental organizations; recruit larger samples of PHAs in studies (i.e., ≥ 100 persons); assess coping and supportive behaviour (i.e., health care utilization); population-based studies, for comparison group studies such as users vs. non-users of CBO services. In addition, studies of PHAs need to emphasize quality of life assessments and use of common measures across studies of small samples to allow for pooling; to control for interview bias using trained,

independent interviewers; to understand mechanisms of coping and support on outcomes; to increase studies on the impact of interventions. There is a need for more longitudinal studies of PHAs and more details on costing methodology to include direct, out of pocket, indirect, and cash-transfer effects of illness. This proposed study sought to eliminate many of the above pitfalls, commonly seen in studies of HIV/AIDS impact, through examining the impact of use of OAN and/or CBO services on people living with HIV/AIDS.

OBJECTIVE

The investigators were interested in the impact of PHAs use of a variety of OAN/CBO support services on their coping ability, general well-being, occurrence of depression, and expenditures for the use of all other (non OAN and/or CBO) health and social services from a societal perspective.

The results document the support efforts and value of what the OAN and CBOs provide to PHAs. In, addition, the document proves valuable in increasing the visibility of this work, identifying gaps in program offerings that need to be reviewed, and their implications in designing future PHA programs and services in Ontario, and elsewhere. Figure 1 represents how the outcome, process, and structural support program goals of OAN and CBOs are interrelated.

The extent to which these goals were achieved was addressed in the following questions:

1. What was the impact of a PHAs prior annual use (mix or frequency) of OAN/CBO services on their quality of life, coping, level of depression, and expenditures for use of all other health and social services?
2. What were the comparative expenditures for the use of health and social services by PHAs:

- In different types of prior user groups (OAN alone, OAN and CBO, CBO alone, usual self-directed care)?
 - Prior frequency of using CBO services (low, medium and high)?
 - In depression groups?
3. What variables including use of services combine to explain PHAs current physical and mental health status?

METHODS

Research Setting

There are 21,000 People Living with HIV/AIDS in Ontario, (Remis, Major, Wallace, Schiedel, and Whittingham, 2001) with the majority concentrated in the Greater Toronto Area. The Ontario AIDS network used the services of the Community-Linked Evaluation AIDS Resource (CLEAR) Unit to add expertise in research methods, data analysis, and to ensure objectivity.

Procedure and Design

This project was a one-time historic cohort analytical survey of 363 people living with HIV/AIDS, between October 2001 and August 2002, in both rural and urban sectors of Ontario. These individuals were receiving various amounts of support services in the years prior to this assessment (in service centres, at home, directly or by telephone or email) from the Ontario AIDS Network, AIDS Service Organizations or others.

Persons living with HIV/AIDS (Figure 2) were recruited in a number of ways, via Ontario AIDS Network events and mailing lists, primary care physicians, HIV specialist clinics

and OAN member groups (ASOs), as well as advertisements in EXTRA, FAB and NOW, which are publications in Toronto relevant to PHAs. PHAs were offered a 1-800 telephone number (toll free) at the OAN and at the Community-Linked Evaluation AIDS Resource (CLEAR) Unit. With implicit consent, callers were asked about willingness to complete questionnaires by phone or by mail, about their needs related to health, quality of life, coping strategies, depression, social support, and use of health and social services. Completed client questionnaires were assembled in groups by type and amount of OAN/CBO service use and compared on the study question variables as well as their satisfaction with support services.

Measurement

The following variables were assessed at one point in time:

Intervention variables that consisted of dates, types, and amounts and number of visits of OAN/CBO service use in the past year; by mediating variables that consisted of ways of coping questionnaire, Karnofsky Rating Scale, Depression (CES-D), social support, and outcome variables that consisted of quality of life (MOS-HIV Health Survey of clients health, symptoms, emotion, support, vitality) and expenditures for use of all health and social services.

MEASURES

Demographic Questionnaire

The following demographic information was obtained: age, gender, language, ethnic background, education, income, type of living arrangement, employment status, and background.

Client Satisfaction with Services

Satisfaction was measured using the Client Satisfaction Questionnaire (CSQ) (Larsen, Attkisson, Hargreaves, and Nguyen, 1992). This eight-item questionnaire is answered on a scale from one to four indicating dissatisfaction or satisfaction with global and specific aspects of the service being evaluated, and is given a total score. Content, construct and predictive validity have been reported as good and split-half reliability and internal consistency as high.

Health Related Quality of Life, Coping Ability and Depression.

Research has shown that a person's ability to cope with HIV infection can be influenced by a multitude of psychosocial variables (Grassie, Righi, Sighinolfi, Makoui, and Ghinelli, 1998) including depression and quality of life.

- *Depression* was assessed for clients using the Centre for Epidemiological Studies Depression Scale (CES-D Scale). This is a 20-item, three-point Likert summative scale rated from zero (rarely) to three (most or all of the time) with a range of zero to 60. Clinically meaningful scores have been demonstrated with a score of **21** or higher indicative of dysthymia (persistent depression with associated symptoms but not severe enough to amount to psychosis) and greater than 40 signifying a major depression. A score of 20 or lower indicates that the person is not depressed (Browne and Roberts, 2002). Ratings are summed for a total score. The CES-D Scale has been widely used as a short, easily administered indicator of depression in non-psychiatric populations (Radloff, 1977); (Radloff and Locke, 1986).
- *Social support* has been proposed to serve as a buffer or modifier of the effects of psychosocial and physical stress on the emotional and physical health of the individual

(Broadhead, Kaplan, James, Wagner, Schoenbach, Grimson, Heyden, Tibblin, and Gehlbach, 1983); (Cohen and Wills, 1985). The Social Support Questionnaire measures two components of perceived emotional support: confidant support, reflecting a “confidant relationship where important matters in life are discussed and shared”, and affective support, reflecting a more emotional form of support or caring. Construct validity, concurrent validity and discriminate validity have been demonstrated for the two scales (Broadhead, Gehlbach, deGruy, and Kaplan, 1989).

- *Coping ability.* Ways of coping was measured using Moos et al., (1984) Indices of Coping Responses Questionnaire that focuses on the cognitive and behavioural coping responses that individuals use when a stressful event has occurred. They were asked to rate their frequency of use of 33 different coping methods on a four-point scale. Responses were categorized into cognitive, behavioural, and avoidance methods of coping and problem solving, logical analysis, emotional distress, affective regulation, and information seeking foci of coping. Internal consistency has been demonstrated for the different scales with alpha scores ranging from .51 to .74. Construct validity has been demonstrated.
- *The Karnofsky Rating Scale.* On this scale is recorded the client’s current performance status (or level of physical functioning) as indicated by the client’s ability to perform common tasks. The scale ranges from 0-100% with a rating of 0% equal to the client being no longer alive and a rating of 100% equal to the client being what we consider normal and manifesting no signs of disease (The Measurement Group, 1996).
- *Quality of Life.* The Medical Outcomes Study HIV Health Survey (MOS-HIV) is a brief, comprehensive measure of general well-being or health-related quality of life. It has

been used extensively in diverse groups including human immunodeficiency virus/acquired immune deficiency syndrome (HIV/AIDS) (Wu, Revicki, Jacobson, and Malitz, 1997). The 36-item questionnaire includes: health perceptions, pain, physical role, social and cognitive functioning, mental health, energy, health distress and quality of life (QOL), and takes approximately fifteen minutes to complete. Subscales are scored on a 0-100 scale (a higher score indicates better health) and physical and mental health summary scores can be generated. The MOS-HIV has been shown to be internally consistent, to correlate with concurrent measures of health, discriminate between distinct groups, predict future outcomes, and be responsive to changes over time. Limited experience suggests acceptable reliability and validity in women, injection drug users, and African-Americans and lower socioeconomic status patients. The MOS-HIV was used as a secondary outcome measure in numerous clinical trials for all states of disease. In several studies, it has detected significant differences between treatments: in some cases concordant with conventional end-points and, in others, discordant.

- *Health and Social Service Utilization Questionnaire (HSSUQ)*. The use of health and social services for the client was documented. The health and social service utilization outcome variable was measured by an inventory developed by Browne, et al. (1990) based on Spitzer's methodology. It consists of questions about the respondent's use of categories of direct health services: primary care, emergency room, specialists, hospital episodes and days (irrespective of episode), use of other health and social professionals, and laboratory services. Inquiries were "*restricted to the reliable duration of recall span: six months for remembering a hospitalization, two weeks for a visit to a physician, and two days for the consumption of a prescription medication*" (Spitzer, Roberts, and

Delmore, 1976). To calculate annual utilization measures, the various spans of time are extended to yield an annual rate of utilization per category of health and social service and multiplied by the dollar value of the service to yield a measure of costs of health service (Browne, Arpin, Corey, Fitch, and Gafni, 1990; Browne, Gafni, and Roberts, 2001). Questions were added to the health service utilization inventory to assess the direct out-of-pocket expenditures, indirect costs, cash transfer, effects of illness, and other social costs. The additional approaches to the measure of out-of-pocket expenditures and the assignment of dollar values for direct and indirect costs are described more fully elsewhere (Browne et al, 1990). This measure has been tested previously and demonstrated discriminate validity. High levels of observed agreement (.72-.99) between the patients' report and the clinic record have been reported (Browne et al, 1990).

JUSTIFICATION OF SAMPLE SIZE

Using a sample size table for prevalence rates (Table 1), the largest sample needed to detect an unknown prevalence of problems was 384. Consequently, this survey of 363 PHAs was sufficient to detect problems in the well being of persons living with HIV/AIDS in Ontario, prevalent at a rate of 38 to 40%.

ANALYSIS

Descriptive statistics using means, medians, standard deviations (SDs), proportions, and confidence intervals (expected range of outcome) were used to describe percentages of clients exposed to different types and intensities of OAN/CBO services with a variety of socio demographic, depression, coping, and quality of life characteristics.

Scores were compared using analysis of variance, chi square or Kruskal Wallis between those PHAs receiving different frequencies and mixes of OAN/CBO services. Stepwise Regression Analysis with free-entry of variables was used to identify correlates and predictors of PHA current physical and mental health status.

ETHICS

All clients had the anonymous choice to participate in the study or not. An information sheet and toll-free optional numbers were mailed, hand delivered or posted in target areas. The name of the study contact person at the research unit was provided to the participants so that their questions could be answered. They were assured that confidentiality and anonymity would be maintained. Since the measurement was at one point in time, there was no need for names. Codes were used on data collection forms for sampling purposes (i.e., county, rural/urban), but there was no master list to link with the codes. Interviews were conducted directly in the client's own residence, by telephone or in a mutually agreed setting. Clients could refuse to answer specific questions or could withdraw from the study at any time. Ethics committee approval was obtained for the interviews and participants gave implicit consent as indicated by phone-in and participation in the anonymous telephone call. Clients were assured that their participation or refusal was confidential and would have no effect on their present or future health care.

RESULTS

User Groups

Eighteen percent (18.7%) of 363 PHA respondents were definite users of OAN services while 23.7% indicated that they were not sure whether they used the OAN. Some respondents

were not aware the OAN existed at all and expressed an interest in learning more. 58% of respondent people living with HIV/AIDS were depressed as defined by a CES-D score ≥ 21 . In contrast, 79.3% of PHA respondents were users of Community-Based Organizations with less than 1% not sure of their use of CBO services.

After identifying all possible combinations of services used by PHAs, the final classification of “*service user groups*” were generated: Non OAN/CBO Users (non-users); OAN Users only; OAN + One CBO User; OAN + Multiple CBO Users; One CBO User only; and Multiple CBO Users (Table 2).

In these six CBO service user groups, services were categorized into low (1-10), medium (11-29), moderate (30-51) and high (52 and up) frequency use of groups (Table 3).

Characteristics and Comparability of Types of Service Users (User Groups)

PHAs in each type of service user group were similar in age, gender, educational level, living circumstance, citizenship status, and living arrangement (Table 4).

The age range of PHAs in each service user group (20 – 69 years) was equivalent and 77% of respondents in each service user group were between 30 to 50 years of age. PHAs in each service user group were equivalent in being, on average 77.2% male, 21.4% female and 1.4% transgender. Approximately 66% of PHAs in each user group had either completed post-secondary education or had acquired some post-secondary education, 26% high school, and 8% grade school. On average, 70% of respondent PHAs lived in their own home or apartment in each user group, while 23% lived in someone else’s apartment or subsidized housing. Approximately 95% of each user group were Canadian Citizens and 4% were refugees. Less

than 0.3% were First Nations people. Some 91% of PHAs in each group did not live with a caregiver.

Respondents in the six service user groups were similar in the proportion identifying with specific communities: 14% with men who have sex with men (MSM); 6% with injection drug use (IDU); 5% with HIV endemic countries; 24% heterosexual; 13% bisexual; 4% HIV through transfusion; 61% male, 21% female, and 7% aboriginal.

PHA service user groups were equivalent in the percent of respondents who identified with one of 21 ethno-specific cultures (8%) and those who did not (92%). User groups were similar in the proportion of their “street-involvement” (6%), by age under 20 years (2%), between 21-24 years (4%), between 25 to 29 years (8%), and representing a mental health group (15%).

PHA service user groups did differ in a few demographic characteristics including marital or partner status. A greater proportion of PHA users of a single Community Based Organization, which consisted mainly of AIDS Services Organizations, were married/common-law/partnered (44%) vs. this status in the other groups. Users of multiple CBOs were the least partnered at 22%.

Accordingly, a greater proportion of PHA users of a single CBO service lived with partner/spouse/children (30%) vs. PHAs who used multiple CBOs (12%). A greater proportion of PHAs who were users of OAN services with or without the use of a CBO service were transgender (15%) compared to non-OAN users (1 to 4%). Eighty percent of PHAs who used multiple CBOs came from a city core area compared to an average 63% of other types of user groups coming from a city core area. A greater proportion of PHAs using Community Based Organization services with or without the use of Ontario AIDS Network services had activity

limitations (23%) compared with OAN users (9%). A greater proportion of users of OAN programs with or without the added use of a CBO service while under stress sought support or used skills acquired from the PHA Caucus Meetings, OAN Workshops, and family and friends (47.4% to 57%), in comparison with non-users (18.8%) or CBO users only (13.1% to 17%) (see Figures 3 and 4). A greater proportion of users of CBOs with or without the use of the Ontario AIDS Network identified themselves as gay (22% to 42.5%) compared with users of OAN services only (21.1%) or individuals that used neither OAN nor CBO services (15.1%). This also proved true for service users that identified themselves as heterosexuals (5.6% to 15.8% vs. 0% and 0%) (Figure 5).

Outcomes by Type of Service User Group

Respondents using the various combinations of OAN/CBO services (Table 5) were similar in health status with 45% reporting fair to poor health; 28% reporting poor to severe disability defined as ≤ 70 on the Karnofsky Scale; 8.6 mean years since HIV/AIDS diagnosis; moderate to poor physical health; moderate to poor mental health; moderate confident and affective social support; and moderate to high satisfaction with OAN services.

Respondents using the various combinations of OAN/CBO services differed in the following way: Persons living with HIV/AIDS that were users of CBO services with or without use of the OAN services had a clinically important greater proportion of activity limitations (22 to 27% vs. 7.5% to 11%) than non-users or OAN users only (Figure 5). Also, a greater proportion of CBO users suffered depression (61%) as compared to non-users or OAN service users only (45%) (Figure 6). This greater proportion of users of OAN services with limited activities, whether or not they also used CBO services, sought support and used skills acquired

through the OAN, the PHA Caucus or skills development workshops. In contrast, a greater proportion of PHAs who used CBO services with or without the use of OAN services identified themselves as gay and having depression.

Respondents who self selected to these various types of combinations of services maintained their health and well being in comparable ways, yet differed in the prevalence of depression. Since depressed persons are usually high users of other publicly funded services (DiMatteo, Lepper, and Croghan, 2000), the subsequent analysis determined if CBO services were able to contain the use of other publicly funded services and thus pay for themselves in the same year by offsetting this usual increased public expenditure.

While not statistically significant, PHAs who used one Community Based Organization service or none had, on average (Table 6), higher per person per annum salaries compared to PHAs in other user groups. All PHAs who used Ontario AIDS Network or CBO services alone or combined were higher consumers of Ontario Disability Support Program (ODSP) (\$3,046 to \$4,316) compared with non-OAN/CBO users (\$2,199) and had higher costs for all health and social services (\$18,699 to \$25,999 vs. \$13,957).

Thus OAN/CBOs serve PHAs with higher levels of depression and more limitations in activity, and not surprisingly these PHAs are higher users of all services including other out of pocket, ambulatory, and publicly funded hospital, health and social services. Users of OAN and/or CBO services have twice the expenditures for publicly funded health and social services compared to PHAs who do not use OAN/CBO services.

Characteristics and Comparability of PHAs Using Various Frequencies of CBO Services

Respondent PHAs who used various frequencies (low, medium, moderate, high) of CBO services were similar in age, gender, educational level, marital status, housing, lifestyle, geographic location, citizenship status, living arrangement, and sexual orientation (Table 7).

The age range of PHAs that used any frequency of CBO services (20 – 69 years) were equivalent with 77% of respondents in each group between 30 to 50 years of age. PHAs in each frequency of use group were equivalent in being, on average 78% male, 22.6% female, and 1.4% transgender. Approximately 66% of each frequency of use group had some or completed post-secondary education, 26% high school and 8% grade school. Some 70% of respondent PHAs in each frequency of use group were without a partner. An average 70% lived in their own home or apartment while 7% were homeless or in transitional housing, and 13% were in subsidized or supportive housing. Some 77.5% of respondents in each frequency of use group were from the city core, 10.7% from rural areas, and 11.8% from city suburbs; 95% were Canadian Citizens or landed immigrants and 4% were refugees; less than 0.3% were of aboriginal descent and 91% of PHAs in each frequency of use group did not live with a caregiver.

Respondents in each frequency of use group were similar in the proportion identifying with specific communities: 30% with the gay community, 14% with MSM; 6% with IUD; 6% with HIV endemic countries, 8% aboriginal; 24% heterosexual, 13% bisexual; 3% HIV through transfusion; 61% male, 21% female, and 3% transgender. In addition, the frequency of CBO user groups were similar in the percent (9%) of respondents who identified with one of 21 ethno-specific cultures, in the proportion of their “street-involvement” (6%), by age, under 20 years (2%), between 21-24 years (4%), between 25 to 29 years (8%), and those representing a mental health group (15%).

Finally, PHAs in each Community Based Organization frequency of use group were similar in the percentage seeking support through the PHA Caucus (37%), through the OAN (37.5%), or drawing on skills obtained through the PHA Caucus (35.7%) or OAN skills workshops (40%).

Some 57% of respondent PHAs with disabilities were moderate to high frequency users of CBO services (30-52 + times) compared to 9% of non-users, 39% medium (11–29 times), and low (1–10 times) users. A greater proportion of these PHAs who used CBO services moderately to highly also had more severe activity limitations (35% high users and 27% medium users vs. 21% non users) as measured by ≤ 70 on the Karnofsky Scale.

A greater proportion of PHAs who used CBO services a little or not at all (68% and 52% respectively) were also less likely to seek support from family or friends compared to PHAs who used CBO services at a medium, moderate and high rate (44.1 % vs. 48.4%).

Comparative Outcomes of PHAs using Different Frequencies of CBO Services

In terms of health status, people with HIV/AIDS in the different groups of frequency of use of CBO services were similar in the proportion of respondents reporting fair to poor health (43%), experiencing depression (57.5%), years since HIV/AIDS diagnosis (mean 8.6 ± 5.0 years), low to moderate amount of confidant support ($\bar{x}=15.5$ in a range 5-30%), low to moderate amount of affective support ($\bar{x}=9.0$ in a range 3-18%)(Table 8).

The high user groups of CBO services differed in how they coped with stressors in comparison to non-users of CBO services. High users employed more active behavioural coping ($\bar{x}=24.5$ vs. 21.3, $p=.03$), more information seeking ($\bar{x}=12.8$ vs. 10.4, $p=.006$), more emotional discharge ($\bar{x}=7.3$ vs. 6.0, $p=.04$), lower SF=36 standardized role function scores ($\bar{x}=28$ vs. 50,

p=.04), lower pain scores (\bar{x} =51 vs. 64, p=.04), and higher SF=36 standardized health transition scores (\bar{x} =63 vs. 56, p=.008).

In other words, the respondent PHAs who were higher users of CBOs differed from non-CBO users in the following ways: they possessed more active coping and emotional abilities, greater use of family and friends for support, less pain, greater and more severe activity limitations and therefore, less ability to perform usual roles (Figure 7).

This is consistent with the literature concerning persons with activity limitations that they are higher users of health and social services. Of interest to this study, was the extent to which more frequent use of CBO services either reduced or contained the use of other publicly funded and more expensive services.

PHAs with moderate and high use of Community Based Organization services (Table 9) had lower salary income compared to non, low, and medium intensity users (Figure 8). All users of CBO services had higher Ontario Disability Support Payments (ODSP) (\$2,866 to \$4,989) compared to non-users (\$2,556, p=.02). CBOs, largely AIDS Service Organizations, cared for a group of people living with HIV/AIDS with more severe activity limitations, who had less income and who in turn consumed higher per person annual out of pocket and total health and social services (\$18,303 to \$28,123) compared to PHAs who did not use CBO services at all (\$15,281) (Figure 9). PHAs more intensely served by Community Based Organization services also consumed the most in other health and social resources.

Health and Social Service Utilization Costs by Depressed/Non Depressed PHAs

Since 58% of PHAs were depressed and since CBOs are frequented by a greater proportion of PHAs with depression (CES-D Score ≥ 21), (61% vs 45%) the following analysis

examined differences in demographic characteristics, quality of life, and perceived social support of depressed vs. non-depressed PHAs (Table 10).

As displayed in Table 10, PHAs with depression were similar to those PHAs without depression in age, gender, educational levels, marital status, living arrangements, geographic location, citizenship status, living alone (49%), living with a caregiver (9%), identification with various HIV/AIDS groups, use of and satisfaction with OAN skills or caucus groups, and length of living with HIV/AIDS (9 years). Some 62% of depressed PHAs who reported taking an antidepressant still scored in the depressed range. In contrast, 38% of non-depressed PHAs reported taking anti-depressants.

Although relatively few, a greater proportion of depressed PHAs (\bar{x} CES-D Score of 32.6 ± 8.7) in comparison to PHAs without depression (\bar{x} CES-D Score of 11.5 ± 5.5) identified with a mental health group (20% vs. 9%, $p=.003$), and identified with a disability group (25% vs. 16%, $p=.03$); rated their general health as fair to bad (57% vs. 26%, $p<.001$), and required considerable to extensive assistance and medical care (13% vs. 5%, $p<.001$).

PHAs with depression had a coping style characterized by less cognitive, less active behaviour, less logical analysis, less information seeking, less problem solving, less affective regulation with more avoidance and emotional discharge (Table 10).

PHAs with depression had consistently poorer health perceptions, physical function, role function, social function, cognitive function, pain function, mental health, energy/fatigue, health distress, overall negative quality of life, yet more positive support and more emotional support (Table 10).

Table 11 is a summary of the income characteristics and annual per person expenditures for use of health and social services by the group of PHAs with depression. This group also had

higher CD4 plus lymphocyte counts (\bar{x} =659 vs. 470, $p<.03$). PHAs with depression had less old age security, private insurance and salary income, and yet more social assistance than those without depression (Table 11). PHAs with depression, on average consumed statistically and/or administratively greater per person per annum expenditures, than those not depressed, for use of crisis or therapeutic publicly funded services such as the emergency department, ambulance services, 911 service, psychologist services, family counsellor services, food bank services, and jail or penitentiary services. In contrast, while not always statistically significant, PHAs without depression used an array of publicly funded community services such as home care, occupational therapy, social workers, addictions counsellors, recreation, financial assistance, advocacy services, housecleaning, and medication. In this way, the total per person per annum cost for PHAs without depression was greater (\$18,722 vs. \$15,537, $p=.007$) owing largely to a lower (\$3,000) use of medication by PHAs with depression. A greater amount of the services used by PHAs without depression was provided by other community based not-for-profit organizations or were paid for out of pocket. Whereas expenditures for PHAs with depression accrued to the publicly funded health, social, and corrections budgets.

Correlates and Predictors of PHA's Physical and Mental Health

The results of the stepwise regression analysis of historical variables explained that the PHAs current Physical Health Summary Score indicated that PHAs with more advanced stage of illness, more depression, poorer ratings of health in general, and advancing age, in this order, explained for 57.6% of the variance in the Physical Health Summary Score (Table 13).

A similar stepwise regression analysis of variables that explain a PHAs current Mental Health Summary Score indicated that 60% of a PHAs current mental health scores were

explained by the current amount of their depression. 9% more in the variance in PHAs mental health scores is added to the explanation for a total of 69% by the poor ratings of their health in general, advanced stage of illness, and low perception of confidant support (Table 14). Much of this can be modified with appropriate treatment.

CONCLUSION

This study makes an important contribution to the literature in avoiding some of the methodological pitfalls of previous HIV/AIDS impact studies such as obtaining a large sample, with a geographic mix and comparison groups. While many types of PHAs were included in this study, the representativeness of the participants from the entire Ontario PHA population remains unknown.

This study of PHAs self-reported sexual orientation, depression, well-being, and use of services may be biased by over or under reporting. This is true of any study using self-reported measures. However, given that PHAs not scoring depressed (30%) were taking anti-depressants, the prevalence of PHAs with depression (57.5%) is an underestimate. Participant PHAs who had self selected to use various combinations of OAN/CBO services in the previous year were equivalent in most of the following areas: socio demographics, total per person per annum costs for health and social service utilization as well as poor health status characteristics. These PHAs differed only in the following characteristics: a greater proportion of PHAs who used CBO services had depression and identified themselves as gay compared to PHAs who used OAN services alone.

PHAs that used CBO services more or less frequently were similar in socio demographic characteristics. However, PHAs who were high users of CBO services in the preceding year had

more severe limitations in activities yet less pain, less ability to perform usual roles yet more active behaviour coping skills, more actively sought out information, and exhibited more emotional release. The PHAs who had less financially, more activity limitations, and a greater degree of depression, were high users of CBO services. This group of OAN or CBO users with depression also consumed higher per person annual out of pocket total health and social services (\$18,303 to \$28,123) compared to non-users (\$15,281) of these services.

PHAs with a moderate to high use of CBO services had lower average annual salary income (\$12 to \$239) compared to PHAs with no, low or medium use of CBO services (\$2,426 to \$3,206). PHAs in all user groups had higher Ontario Disability Support Program annual income (\$2,866 to \$4,989) compared to PHAs who did not use CBO services (\$2,556) $p=.02$.

Some respondent PHAs (58%) scored depressed despite some of them (62%) taking antidepressants. Those reporting depression had poorer coping skills, quality of life, yet higher perceived confidant and emotional support. The PHAs with depression could be less compliant with prescribed medications since their expenditures for medication are lower than PHAs without depression and they use more publicly funded crisis, emergency, and health and social services.

IMPLICATIONS

This study has implications for the role of the OAN and government in supporting community-based member organizations and other partners to consider strategies for addressing depression among PHAs as well as disability, poverty, housing, employment and retraining. When considering these recommendations it is important to acknowledge that some of this work is already being done by community-based member organizations that now include other agency

partners in designing and implementing strategies to address PHA disability, poverty, and housing.

The recommendations of this study call not only for programmatic enhancements, but also potential systemic changes facilitated by advocacy efforts to influence policy. Further, the importance of drawing on partners outside of the HIV/AIDS movement is another method of enhancing ASO capacity to meet so many needs of PHAs.

Findings from this study should continue to be reviewed to assist with determining the best way to enhance and/or implement programs and services to better support PHAs with depression. For example, more support and training might be beneficial for CBO staff in the care and treatment of PHAs with impairments including depression. Since ASOs have the most vulnerable PHA population as clientele and are already meeting significant needs with their limited resources, the government might consider investing further support to the CBOs as they determine the ways and means to respond to the demands of depression in PHAs. Additionally, to address the findings of this study, CBOs could enhance their existing working relationships with relevant agencies as well as pursue new partnerships and collaborations. For example, experienced mental health professionals could provide ASO staff and volunteers with the training and skills to recognize depression and other mental health problems, when to refer PHAs to an HIV/AIDS clinic for appropriate and adequate doses of medication, how to support PHAs to comply with their pharmacotherapy regime and how to provide basic interpersonal or cognitive behaviour counselling strategies once PHAs have begun to respond to their medication.

In addition to addressing the issues of poverty and disability, reducing depression among PHAs would allow for better problem solving skills in all facets of their life. This could reduce the amount of life crisis and the use of crisis health and social services. This study highlights the

need for enhanced efforts to develop strategic alliances between institutional and community-based services across sectors to better deliver services addressing the determinants of health, to improve PHA access to these services and to increase the sustainability of services.

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APPENDIX A

Figures

Figure 1: Framework for Evaluation

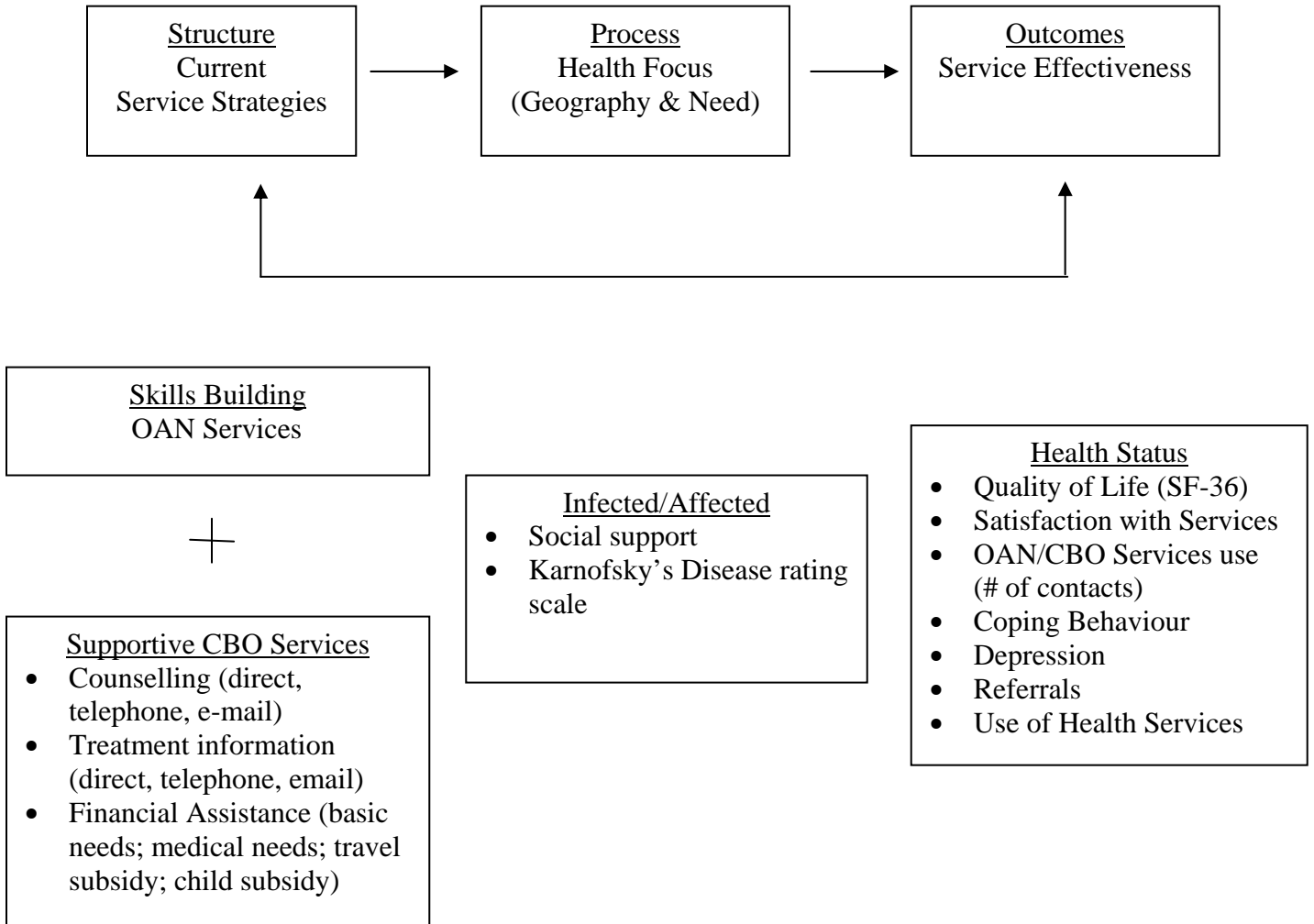


Figure 2: Study Flow Diagram

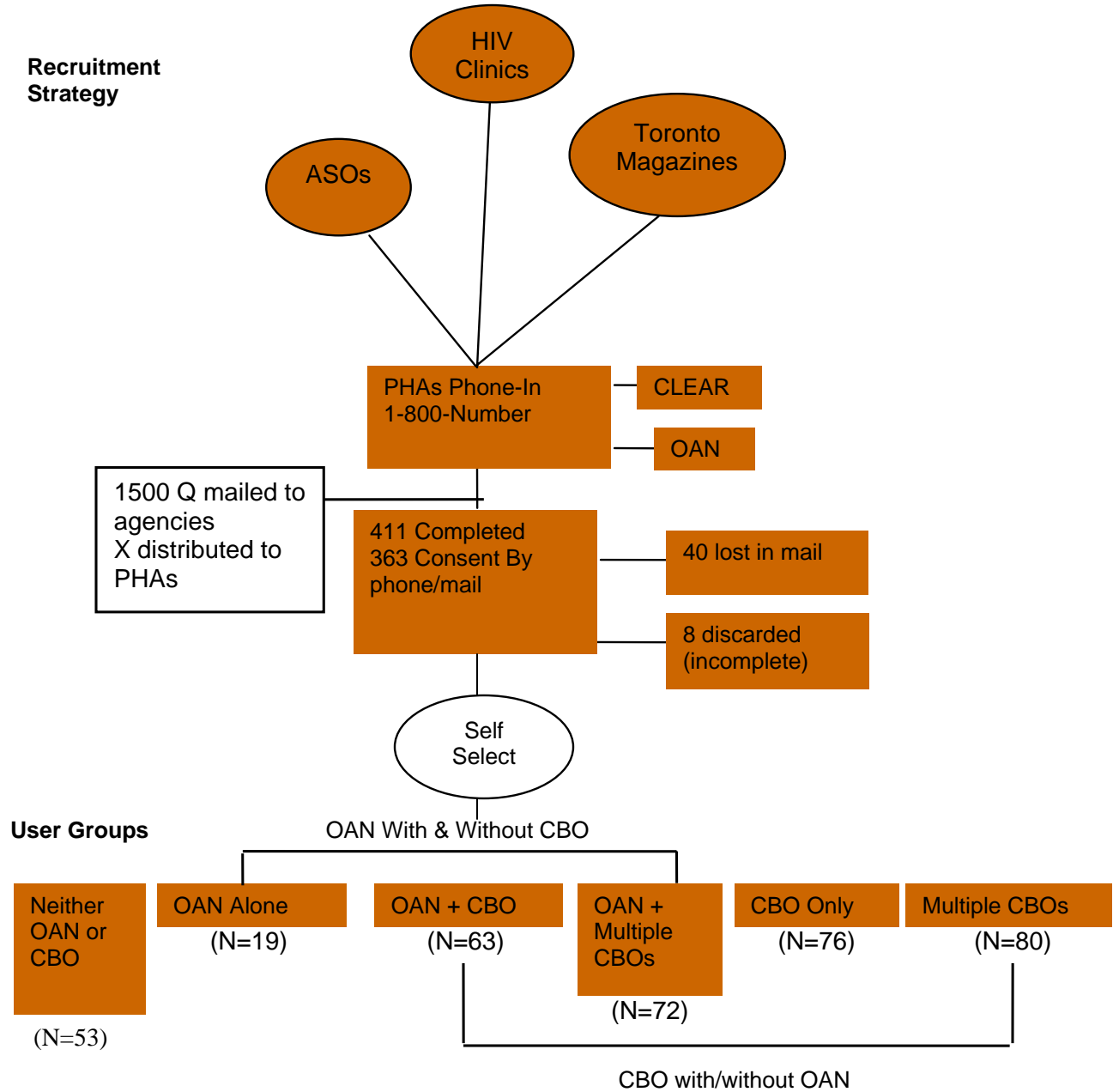


Figure 3
 OAN Users with/without CBO's
 Under a stressful event, sought supports from...

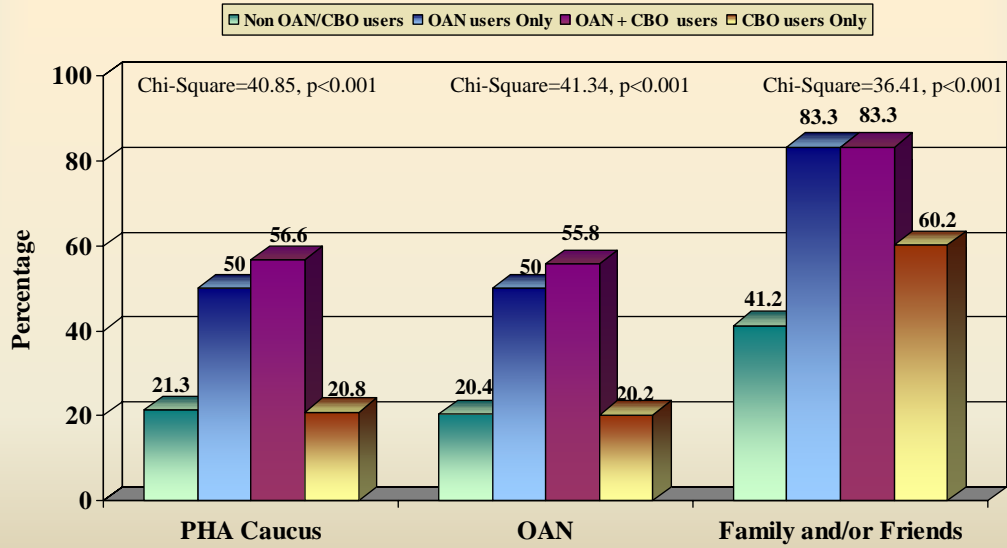


Figure 4
 OAN Users with/without CBOs
 Under a stressful event, drew on skills acquired at...

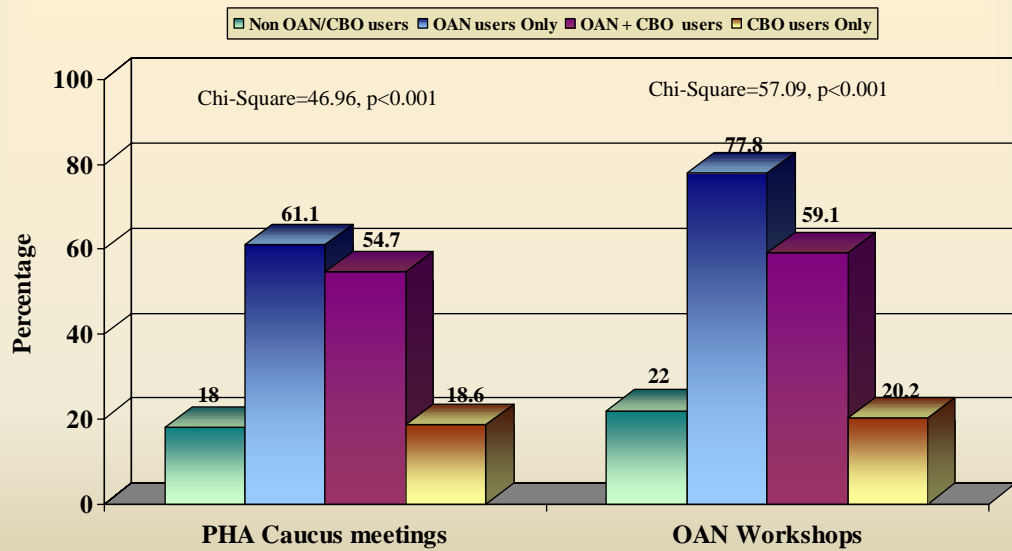


Figure 5
A greater portion of CBO Users
Identify themselves as....

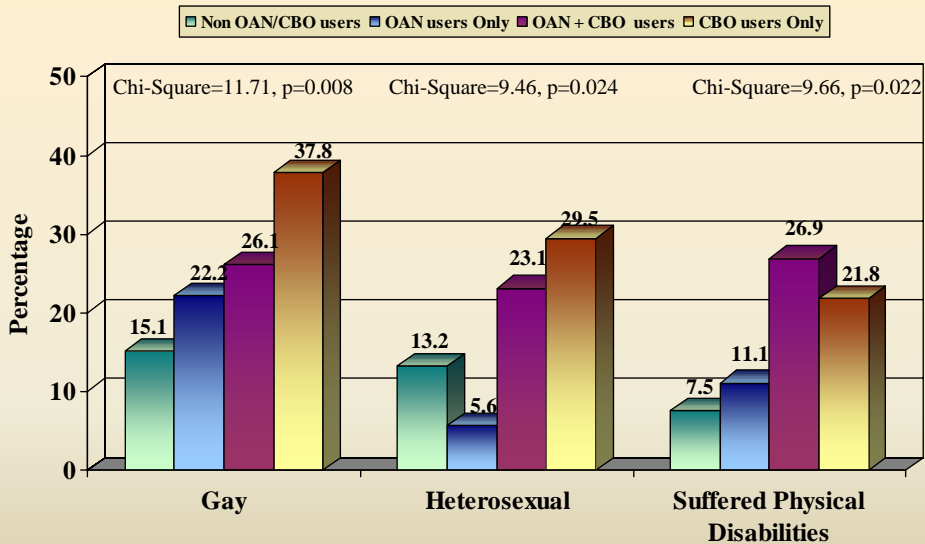


Figure 6
A greater proportion of CBO Users
.... Suffered Depression

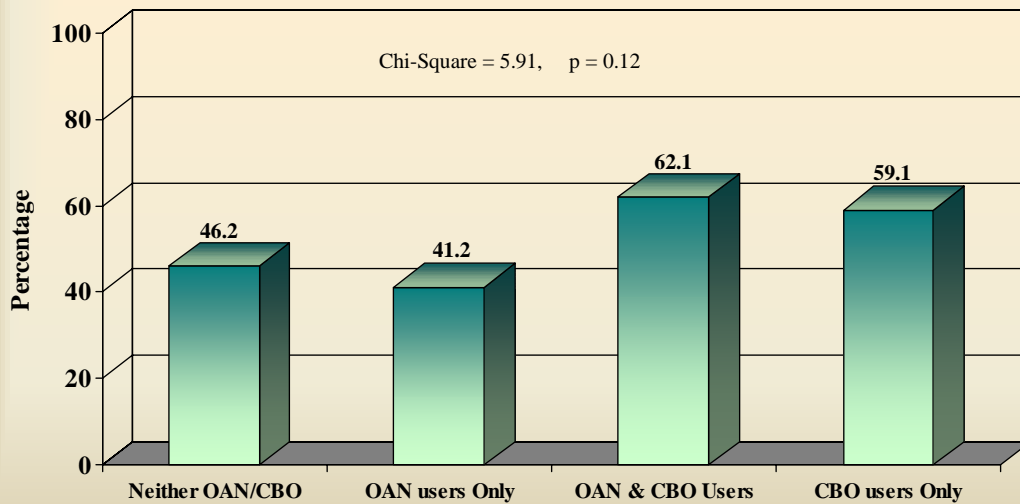


Figure 7
 Moderate to High Intensity of Users of CBOs
Have severe disabilities

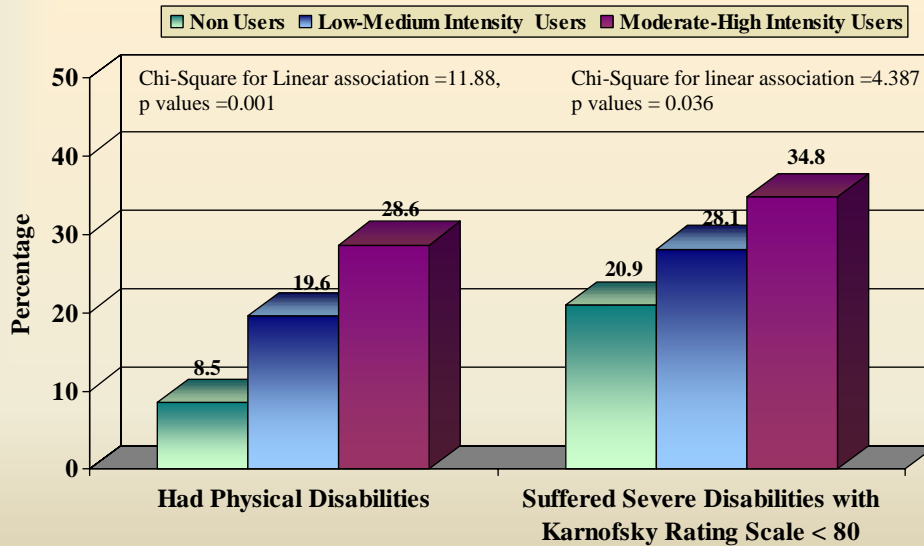


Figure 8
 Moderate to High Intensity of Users of CBO's
 Had Lower Yearly Overall Income from all sources before tax deduction

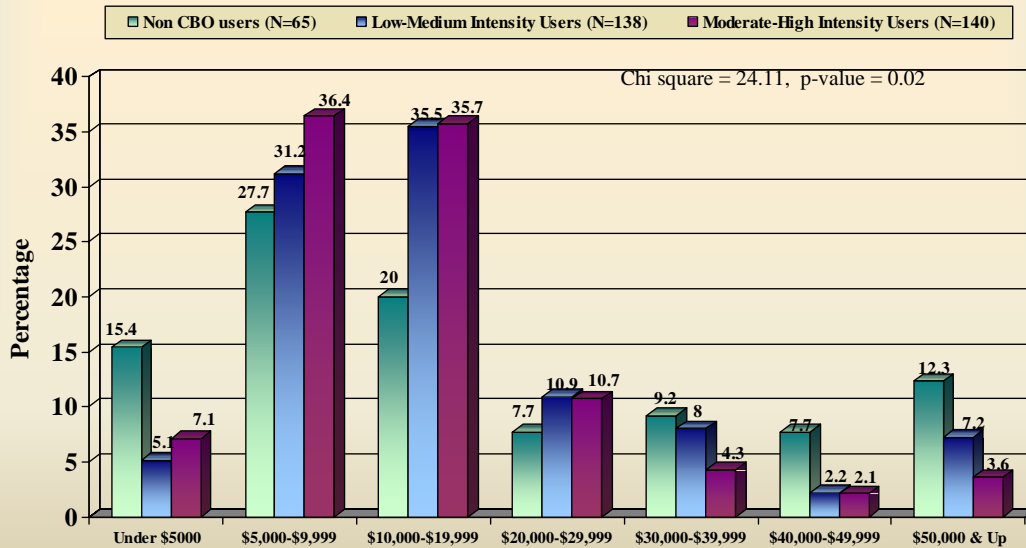
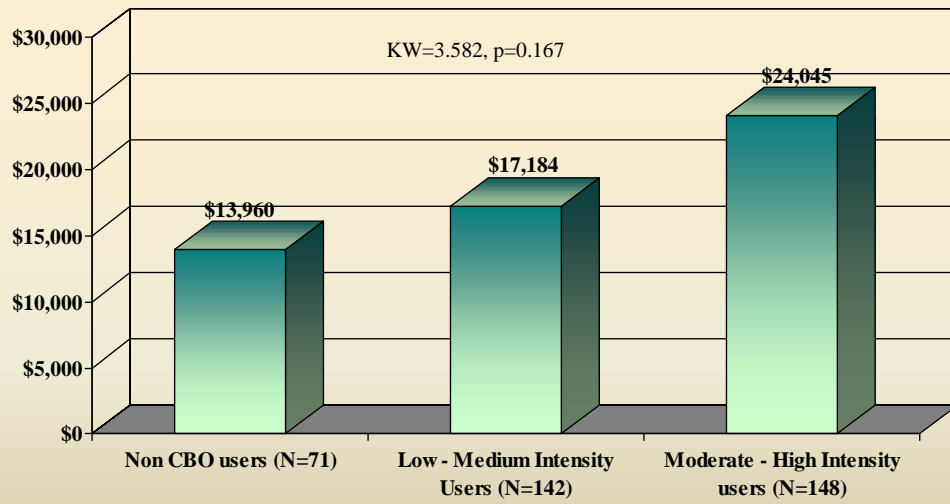


Figure 9
Moderate to High Intensity of Users of a CBO
Had Higher Costs for Direct Health and Social Services



* Direct Cost

APPENDIX B

Tables

Table 1
Sample Sizes for Prevalence with a 2-Tailed
95% Confidence and a .05 Error Rate

Prevalence of a Problem	Sample Size
10%	138
20%	245
30%	323
40%	369
50%	384
60%	369
70%	323
80%	245
90%	138

Table 2
Classification of Service User Groups

	Frequency	Percent
Non OAN/CBO users	53	14.60
OAN users Only	19	5.20
OAN + One CBO user	63	17.40
OAN + Multiple CBO users	72	19.80
One CBO user Only	76	20.90
Multiple CBO users only	80	22.00
Total	363	100.00

Table 4
Service Information and Demographic By Type of Service Users

															Test Statistics	
	Total		Other Users (Non OAN nor CBO users)		OAN users Only		OAN + One CBO user		OAN + Multiple CBO users		One CBO user Only		Multiple CBO users only			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%		
1. Age																
20-29	24	6.8%	6	11.5%	0	0.0%	1	1.6%	5	7.1%	5	6.8%	7	8.9%	20.72	0.414
30-39	125	35.2%	18	34.6%	6	31.6%	23	37.7%	31	44.3%	17	23.0%	30	38.0%		
40-49	147	41.4%	21	40.4%	9	47.4%	26	42.6%	25	35.7%	36	48.6%	30	38.0%		
50-59	48	13.5%	6	11.5%	3	15.8%	11	18.0%	8	11.4%	12	16.2%	8	10.1%		
60-69	11	3.1%	1	1.9%	1	5.3%	0	0.0%	1	1.4%	4	5.4%	4	5.1%		
Total	355	100.0%	52	100.0%	19	100.0%	61	100.0%	70	100.0%	74	100.0%	79	100.0%		
2. Gender																
Male	282	77.9%	48	90.6%	15	78.9%	51	81.0%	52	73.2%	59	77.6%	57	71.3%	14.31	0.159
Female	75	20.7%	5	9.4%	3	15.8%	10	15.9%	19	26.8%	16	21.1%	22	27.5%		
Transgender	5	1.4%	0	0.0%	1	5.3%	2	3.2%	0	0.0%	1	1.3%	1	1.3%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
3. Highest level of education you have obtained																
Grade school	29	8.1%	4	7.5%	1	5.3%	5	8.1%	2	2.8%	10	13.3%	7	8.8%	30.08	0.221
High school or equivalent	95	26.4%	13	24.5%	6	31.6%	11	17.7%	22	31.0%	24	32.0%	19	23.8%		
Some/complete college	116	32.2%	18	34.0%	7	36.8%	25	40.3%	22	31.0%	24	32.0%	20	25.0%		
Some/complete university	109	30.3%	18	34.0%	5	26.3%	16	25.8%	23	32.4%	16	21.3%	31	38.8%		
Other	10	2.8%	0	0.0%	0	0.0%	5	8.1%	1	1.4%	1	1.3%	3	3.8%		
Professional Degree	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%		
Total	360	100.0%	53	100.0%	19	100.0%	62	100.0%	71	100.0%	75	100.0%	80	100.0%		
4. Marital Status																
Single/Never Married	186	51.4%	30	56.6%	10	52.6%	28	44.4%	43	60.6%	28	36.8%	47	58.8%	20.01	0.029
Divorced/separate/Widow	68	18.8%	8	15.1%	2	10.5%	19	30.2%	9	12.7%	15	19.7%	15	18.8%		
Married/common-law/Partner	108	29.8%	15	28.3%	7	36.8%	16	25.4%	19	26.8%	33	43.4%	18	22.5%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
5. What are your current living arrangements?																
Your house/apartment	251	69.5%	40	75.5%	13	68.4%	42	67.7%	47	66.2%	53	69.7%	56	70.0%	49.05	0.155
Transitional housing	19	5.3%	2	3.8%	0	0.0%	4	6.5%	5	7.0%	5	6.6%	3	3.8%		
Homeless/street	6	1.7%	1	1.9%	0	0.0%	0	0.0%	2	2.8%	0	0.0%	3	3.8%		
Someone else's house/apartment	38	10.5%	3	5.7%	5	26.3%	10	16.1%	5	7.0%	12	15.8%	3	3.8%		
Residential housing subsidized	43	11.9%	6	11.3%	1	5.3%	5	8.1%	12	16.9%	4	5.3%	15	18.8%		
Hospital	1	0.3%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
Recovery Home	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		
Supportive Housing	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		
Co-op	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Total	361	100.0%	53	100.0%	19	100.0%	62	100.0%	71	100.0%	76	100.0%	80	100.0%		
6. Geographic location																
City core	276	77.5%	40	76.9%	12	63.2%	40	65.6%	58	81.7%	53	70.7%	73	92.4%	23.81	0.008
Rural	38	10.7%	6	11.5%	4	21.1%	8	13.1%	5	7.0%	13	17.6%	2	2.5%		
City suburbs	42	11.8%	6	11.5%	3	15.8%	13	21.3%	8	11.3%	8	10.8%	4	5.1%		
Total	356	100.0%	52	100.0%	19	100.0%	61	100.0%	71	100.0%	74	100.0%	79	100.0%		
7. Citizenship status																
Canadian citizen	322	89.2%	49	92.5%	16	84.2%	58	92.1%	60	84.5%	66	88.0%	73	91.3%	18.04	0.841
Landed Immigrant	22	6.1%	2	3.8%	2	10.5%	3	4.8%	7	9.9%	4	5.3%	4	5.0%		
Refugee	13	3.6%	1	1.9%	1	5.3%	1	1.6%	4	5.6%	3	4.0%	3	3.8%		
Visitor/Tourist	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		

Table 4
Service Information and Demographic By Type of Service Users

	Total	Other Users (Non OAN nor CBO users)												Test Statistics		
		OAN users Only		OAN + One CBO user		OAN + Multiple CBO users		One CBO user Only		Multiple CBO users only						
		N	%	N	%	N	%	N	%	N	%	N	%	Chi Square	p-values	
First Nations	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Diplomat	2	0.6%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		
Total	361	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	75	100.0%	80	100.0%		
8. Do you currently live with someone?																
Live alone	178	49.2%	27	50.9%	10	52.6%	27	42.9%	37	52.1%	29	38.2%	48	60.0%	69.43	0.036
Spouse or partner	77	21.3%	9	17.0%	5	26.3%	13	20.6%	11	15.5%	22	28.9%	17	21.3%		
Friend(s)	27	7.5%	6	11.3%	0	0.0%	8	12.7%	6	8.5%	3	3.9%	4	5.0%		
Children	23	6.4%	2	3.8%	1	5.3%	3	4.8%	6	8.5%	8	10.5%	3	3.8%		
Family members	15	4.1%	3	5.7%	1	5.3%	7	11.1%	1	1.4%	1	1.3%	2	2.5%		
Others	18	5.0%	3	5.7%	0	0.0%	1	1.6%	6	8.5%	4	5.3%	4	5.0%		
Spouse/partner and Friends	4	1.1%	0	0.0%	0	0.0%	1	1.6%	1	1.4%	2	2.6%	0	0.0%		
Spouse/partner and Children	15	4.1%	1	1.9%	0	0.0%	3	4.8%	3	4.2%	6	7.9%	2	2.5%		
Spouse/Partners and family members	2	0.6%	0	0.0%	1	5.3%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		
Children and Family members	2	0.6%	1	1.9%	1	5.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
Spouse/partner, friends and family members	1	0.3%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
8. Do you currently live with someone?																
Live alone	178	49.2%	27	50.9%	10	52.6%	27	42.9%	37	52.1%	29	38.2%	48	60.0%	8.85	0.115
With Others	184	50.8%	26	49.1%	9	47.4%	36	57.1%	34	47.9%	47	61.8%	32	40.0%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
8b. Do you live with a caregiver?																
yes	33	9.1%	4	7.5%	3	15.8%	9	14.3%	5	7.0%	6	7.9%	6	7.5%	3.969	0.554
No	329	90.9%	49	92.5%	16	84.2%	54	85.7%	66	93.0%	70	92.1%	74	92.5%		
Total	362	100.0%	53	100.0%	20	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
10a. Do you identify with a particular community?																
MSM																
yes	50	13.8%	5	9.4%	4	21.1%	7	11.1%	10	14.1%	13	17.1%	11	13.8%	2.773	0.735
No	312	86.2%	48	90.6%	15	78.9%	56	88.9%	61	85.9%	63	82.9%	69	86.3%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
IDU																
yes	23	6.4%	3	5.7%	1	5.3%	4	6.3%	1	1.4%	7	9.2%	7	8.8%	4.814	0.439
No	339	93.6%	50	94.3%	18	94.7%	59	93.7%	70	98.6%	69	90.8%	73	91.3%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
HIV endemic countries																
yes	20	5.5%	4	7.5%	1	5.3%	2	3.2%	7	9.9%	5	6.6%	1	1.3%	6.603	0.252
No	342	94.5%	49	92.5%	18	94.7%	61	96.8%	64	90.1%	71	93.4%	79	98.8%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Heterosexual																
yes	85	23.5%	7	13.2%	1	5.3%	14	22.2%	17	23.9%	25	32.9%	21	26.3%	10.78	0.056
No	277	76.5%	46	86.8%	18	94.7%	49	77.8%	54	76.1%	51	67.1%	59	73.8%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Bisexual																
yes	45	12.4%	8	15.1%	3	15.8%	7	11.1%	6	8.5%	12	15.8%	9	11.3%	2.566	0.766
No	317	87.6%	45	84.9%	16	84.2%	56	88.9%	65	91.5%	64	84.2%	71	88.8%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
HIV-T (Transfusion)																

Table 4
Service Information and Demographic By Type of Service Users

													Test Statistics			
	Total		Other Users (Non OAN nor CBO users)		OAN users Only		OAN + One CBO user		OAN + Multiple CBO users		One CBO user Only				Multiple CBO users only	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	Chi Square	p-values
Help homeless	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%	2.504	0.776
Homeless for 3 years	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%		
Junkies	1	0.3%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
Lived on streets for 5 years	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		
Needle exchange program	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Out of the Cold	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Volunteer 15 years in drop-ins	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Was part of this	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%		
Not stated	12	3.3%	3	5.7%	0	0.0%	1	1.6%	2	2.8%	4	5.3%	2	2.6%		
No	340	93.9%	48	90.6%	19	100.0%	59	93.7%	67	94.4%	71	93.4%	76	95.0%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Youth (under 20 years old)																
yes	6	1.7%	0	0.0%	0	0.0%	2	3.2%	0	0.0%	3	3.9%	1	1.3%	5.826	0.324
No	356	98.3%	53	100.0%	19	100.0%	61	96.8%	71	100.0%	73	96.1%	79	98.8%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Youth (21-24 years old)																
yes	12	3.3%	2	3.8%	0	0.0%	2	3.2%	1	1.4%	3	3.9%	4	5.0%	2.299	0.806
No	350	96.7%	51	96.2%	19	100.0%	61	96.8%	70	98.6%	73	96.1%	76	95.0%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Youth (25-29 years old)																
yes	29	8.0%	4	7.5%	0	0.0%	4	6.3%	7	9.9%	9	11.8%	5	6.3%	4.086	0.537
No	333	92.0%	49	92.5%	19	100.0%	59	93.7%	64	90.1%	67	88.2%	75	93.8%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Youth (30 years and older)																
yes	61	16.9%	7	13.2%	4	21.1%	12	19.0%	10	14.1%	18	23.7%	10	12.5%	4.96	0.421
No	301	83.1%	46	86.8%	15	78.9%	51	81.0%	61	85.9%	58	76.3%	70	87.5%		
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%		
Mental Health Group																
yes	54	14.9%	7	13.2%	0	0.0%	8	12.7%	17	23.9%	10	13.2%	12	15.0%	8.441	0.134
Addiction - recovery	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%		
Addict/cocaine	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%		
Addiction	4	1.1%	0	0.0%	0	0.0%	1	1.6%	3	4.2%	0	0.0%	0	0.0%		
Alcoholic	10	2.8%	0	0.0%	0	0.0%	1	1.6%	2	2.8%	3	3.9%	4	5.0%		
ARF 2 spirits	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Bipolar	2	0.6%	2	3.8%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%		
Borderline bipolar	2	0.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.6%	0	0.0%		
Chronic depression/anxiety	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%		
Cognitive impaired	2	0.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.5%		
Depression	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		
Emotional due to childhood loss of mother	6	1.4%	1	1.9%	0	0.0%	0	0.0%	2	2.8%	1	1.3%	2	2.5%		
Head injury	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%		
Partner schizophrenic	2	0.6%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	1	1.3%		
Severe agoraphobia, anxiety	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%		
Severe depression	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%		
Watch, Canadian Mental Health Association	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%		

Table 4
Service Information and Demographic By Type of Service Users

	Total														Test Statistics			
			Other Users (Non OAN nor CBO users)		OAN users Only		OAN + One CBO user		OAN + Multiple CBO users		One CBO user Only		Multiple CBO users only					
	N=363		N=53		N=19		N=63		N=72		N=76		N=80		Chi Square	p-values		
	N	%	N	%	N	%	N	%	N	%	N	%	N	%				
Caregiver	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	11.4	0.044		
Christian	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
Drag Queen	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
Drug abuse	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				
Drug addict	1	0.3%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%				
Hep C and HIV	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				
Gay	106	29.2%	8	15.1%	4	21.1%	19	30.2%	16	22.2%	25	32.9%	34	42.5%				
Gay (Les	2	0.6%	1	1.9%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				
Hep C	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				
Homosexual	1	0.3%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%				
Hood	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Human being	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%				
Mother	2	0.6%	0	0.0%	0	0.0%	0	0.0%	2	2.8%	0	0.0%	0	0.0%				
Poverty	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%				
Prison	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
PWA	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
Rural	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Self	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%				
Senior	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
Supporting Housing & ASO (AIDS Niagara)	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Wasting	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
No	233	64.4%	41	77.4%	15	78.9%	41	65.1%	48	67.6%	46	60.5%	42	52.5%				
Total	362	100.0%	53	100.0%	19	100.0%	63	100.0%	71	100.0%	76	100.0%	80	100.0%				
Q10b. With which of the above communities do you identify yourself with the most?																		
Not stated	60	16.5%	13	24.5%	4	21.1%	10	15.9%	15	20.8%	10	13.2%	8	10.0%			171.7	0.449
None	12	3.3%	4	7.5%	1	5.3%	2	3.2%	2	2.8%	3	3.9%	0	0.0%				
MSM	21	5.8%	2	3.8%	3	15.8%	4	6.3%	5	6.9%	2	2.6%	5	6.3%				
Gay	84	23.1%	9	17.0%	5	26.3%	9	14.3%	15	20.8%	22	28.9%	24	30.0%				
IDU	7	1.9%	2	3.8%	0	0.0%	0	0.0%	0	0.0%	2	2.6%	3	3.8%				
HIV Endemic Countries	2	0.6%	0	0.0%	0	0.0%	1	1.6%	1	1.4%	0	0.0%	0	0.0%				
Heterosexual	23	6.3%	0	0.0%	0	0.0%	0	0.0%	4	5.6%	12	15.8%	7	8.8%				
Bisexual	9	2.5%	2	3.8%	0	0.0%	1	1.6%	1	1.4%	2	2.6%	3	3.8%				
HIV-Transfusion	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				
Male	47	12.9%	7	13.2%	2	10.5%	14	22.2%	11	15.3%	5	6.6%	8	10.0%				
Female	21	5.8%	1	1.9%	1	5.3%	4	6.3%	5	6.9%	5	6.6%	5	6.3%				
Transgender	3	0.8%	0	0.0%	1	5.3%	2	3.2%	0	0.0%	0	0.0%	0	0.0%				
Aboriginal	8	2.2%	1	1.9%	1	5.3%	2	3.2%	0	0.0%	3	3.9%	1	1.3%				
Ethno-specific	10	2.8%	1	1.9%	0	0.0%	4	6.3%	3	4.2%	1	1.3%	1	1.3%				
Street Involved	8	2.2%	3	5.7%	0	0.0%	1	1.6%	2	2.8%	0	0.0%	2	2.5%				
Youth	5	1.4%	1	1.9%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	3	3.8%				
Youth (21-24 years old)	3	0.8%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.5%				
Youth (25-29 years old)	2	0.6%	1	1.9%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Youth (30 years and older)	6	1.7%	0	0.0%	1	5.3%	1	1.6%	1	1.4%	2	2.6%	1	1.3%				
Mental Health related	8	2.2%	1	1.9%	0	0.0%	1	1.6%	1	1.4%	2	2.6%	3	3.8%				
Physical Health Related	5	1.4%	2	3.8%	0	0.0%	0	0.0%	1	1.4%	1	1.3%	1	1.3%				
Hep C, HIV female	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				

Table 4
Service Information and Demographic By Type of Service Users

	Total	Other Users (Non OAN nor CBO users)												Test Statistics				
		N=363		N=53		N=19		N=63		N=72		N=76		N=80		Chi Square	p-values	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%			
Drag Queen	2	0.6%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	1	1.3%	0	0.0%	22.61	0.831		
HIV	3	0.8%	1	1.9%	0	0.0%	1	1.6%	1	1.4%	0	0.0%	0	0.0%				
Poor	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Village	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
Hood	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Human being	2	0.6%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	1	1.3%				
Homosexual	1	0.3%	1	1.9%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%				
Self	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%				
Mother	1	0.3%	0	0.0%	0	0.0%	0	0.0%	1	1.4%	0	0.0%	0	0.0%				
Christian	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
PWA	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%	0	0.0%				
Rural	1	0.3%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%				
Hamilton Aids Network	1	0.3%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.3%				
Total	364	100.0%	53	100.0%	20	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%				
KRS Measures																		
In general, how would you rate your overall health?																		
Excellent	48	13.2%	11	20.8%	3	15.8%	5	7.9%	11	15.3%	8	10.5%	10	12.5%	50.72	0.119		
Good	153	42.1%	20	37.7%	11	57.9%	26	41.3%	28	38.9%	29	38.2%	39	48.8%				
Fair	131	36.1%	17	32.1%	5	26.3%	25	39.7%	24	33.3%	33	43.4%	27	33.8%				
Very Bad	14	3.9%	2	3.8%	0	0.0%	3	4.8%	6	8.3%	1	1.3%	2	2.5%				
Terrible	8	2.2%	1	1.9%	0	0.0%	2	3.2%	1	1.4%	3	3.9%	1	1.3%				
Don't know	5	1.4%	2	3.8%	0	0.0%	1	1.6%	1	1.4%	1	1.3%	0	0.0%				
Not stated	4	1.1%	0	0.0%	0	0.0%	1	1.6%	1	1.4%	1	1.3%	1	1.3%				
Total	363	100.0%	53	100.0%	19	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%				
Current Stage of illness (KRS scale)																		
20 Very sick; hospitalization necessary; active, supportive tre	2	0.6%	0	0.0%	0	0.0%	1	1.6%	0	0.0%	1	1.4%	0	0.0%	50.72	0.119		
30 Severely disabled; hospitalization indicated although death not immi.	3	0.9%	2	4.1%	0	0.0%	0	0.0%	1	1.5%	0	0.0%	0	0.0%				
40 Disabled; requires special care and assistance	8	2.3%	1	2.0%	0	0.0%	0	0.0%	4	6.2%	2	2.7%	1	1.3%				
50 Requires considerable assistance and frequent medical care	22	6.3%	4	8.2%	1	5.6%	5	8.1%	5	7.7%	3	4.1%	4	5.0%				
60 Requires occasional assistance but is able to care for most	30	8.6%	2	4.1%	1	5.6%	9	14.5%	5	7.7%	7	9.6%	6	7.5%				
70 Cares for self; unable to carry on normal activity or to do	37	10.7%	2	4.1%	1	5.6%	11	17.7%	7	10.8%	12	16.4%	4	5.0%				
80 Normal activity with effort; some signs or symptoms of disease	93	26.8%	6	12.2%	6	33.3%	18	29.0%	18	27.7%	22	30.1%	23	28.8%				
90 Able to carry on normal activity; minor signs or symptoms of	103	29.7%	20	40.8%	6	33.3%	13	21.0%	17	26.2%	17	23.3%	30	37.5%				
100 normal; no complaints; no evidence of disease (exhibits norm	49	14.1%	12	24.5%	3	16.7%	5	8.1%	8	12.3%	9	12.3%	12	15.0%				
Total	347	100.0%	49	100.0%	18	100.0%	62	100.0%	65	100.0%	73	100.0%	80	100.0%				
Depression (CES-D)																		
Depressed (> 20)	204	57.5%	24	46.2%	7	41.2%	38	61.3%	44	62.9%	50	66.7%	41	51.9%	9.37	0.095		
Not depressed (<=20)	151	42.5%	28	53.8%	10	58.8%	24	38.7%	26	37.1%	25	33.3%	38	48.1%				

Table 4
Service Information and Demographic By Type of Service Users

	Total	Other Users (Non OAN nor CBO users)												Test Statistics			
		N=363		N=53		N=19		N=63		N=72		N=76		N=80		Chi Square	p-values
		N	%	N	%	N	%	N	%	N	%	N	%	N	%		
Total	355	100.0%	52	100.0%	17	100.0%	62	100.0%	70	100.0%	75	100.0%	79	100.0%			
Coping Measures related PHA Support programs																	
12hh. Seek PHA support through PHA Caucus																	
No	197	54.1%	37	69.8%	9	45.0%	29	46.0%	27	37.5%	51	67.1%	44	55.0%	82.12	<0.001	
Yes, once or twice	51	14.0%	4	7.5%	3	15.0%	14	22.2%	21	29.2%	3	3.9%	6	7.5%			
Yes, sometimes	47	12.9%	4	7.5%	2	10.0%	16	25.4%	14	19.4%	5	6.6%	6	7.5%			
Yes, Fairly Often	19	5.2%	2	3.8%	4	20.0%	3	4.8%	5	6.9%	1	1.3%	4	5.0%			
N/A/Not stated	50	13.7%	6	11.3%	1	10.0%	1	1.6%	5	6.9%	16	21.1%	20	25.0%			
Total	363	100.0%	53	100.0%	19	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%			
12ii. Seek PHA support through OAN																	
No	200	55.1%	39	73.6%	9	47.4%	27	42.9%	30	41.7%	50	65.8%	45	56.3%	77.95	<0.001	
Yes, once or twice	45	12.4%	4	7.5%	2	10.5%	13	20.6%	17	23.6%	3	3.9%	6	7.5%			
Yes, sometimes	57	15.7%	5	9.4%	6	31.6%	20	31.7%	15	20.8%	5	6.6%	6	7.5%			
Yes, Fairly Often	13	3.6%	1	1.9%	1	5.3%	3	4.8%	4	5.6%	2	2.6%	2	2.5%			
N/A	48	13.2%	4	7.5%	1	5.3%	0	0.0%	6	8.3%	16	21.1%	21	26.3%			
Total	363	100.0%	53	100.0%	19	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%			
12jj. Seek PHA support through friends, family etc																	
No	102	28.1%	30	56.6%	3	15.8%	12	19.0%	10	13.9%	27	35.5%	20	25.0%	97.42	<0.001	
Yes, once or twice	70	19.3%	10	18.9%	4	21.1%	12	19.0%	26	36.1%	7	9.2%	11	13.8%			
Yes, sometimes	89	24.5%	4	7.5%	7	36.8%	28	44.4%	19	26.4%	15	19.7%	16	20.0%			
Yes, Fairly Often	58	16.0%	7	13.2%	4	21.1%	11	17.5%	14	19.4%	11	14.5%	11	13.8%			
N/A	44	12.1%	2	3.8%	1	5.3%	0	0.0%	3	4.2%	16	21.1%	22	27.5%			
Total	363	100.0%	53	100.0%	19	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%			
12kk. Draw on skills acquired at PHA Caucus meetings																	
No	202	55.6%	41	77.4%	7	36.8%	28	44.4%	30	41.7%	50	65.8%	46	57.5%	85.55	<0.001	
Yes, once or twice	44	12.1%	3	5.7%	3	15.8%	14	22.2%	13	18.1%	4	5.3%	7	8.8%			
Yes, sometimes	51	14.0%	4	7.5%	7	36.8%	15	23.8%	18	25.0%	4	5.3%	3	3.8%			
Yes, Fairly Often	17	4.7%	2	3.8%	1	5.3%	6	9.5%	4	5.6%	1	1.3%	3	3.8%			
N/A	49	13.5%	3	5.7%	1	5.3%	0	0.0%	7	9.7%	17	22.4%	21	26.3%			
Total	363	100.0%	53	100.0%	19	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%			
12ll. Draw on skills acquired at OAN workshops																	
No	192	52.9%	39	73.6%	4	21.1%	28	44.4%	26	36.1%	49	64.5%	46	57.5%	99.26	<0.001	
Yes, once or twice	51	14.0%	5	9.4%	6	31.6%	13	20.6%	15	20.8%	4	5.3%	8	10.0%			
Yes, sometimes	59	16.3%	4	7.5%	6	31.6%	17	27.0%	23	31.9%	6	7.9%	3	3.8%			
Yes, Fairly Often	17	4.7%	2	3.8%	2	10.5%	5	7.9%	5	6.9%	1	1.3%	2	2.5%			
N/A	44	12.1%	3	5.7%	1	5.3%	0	0.0%	3	4.2%	16	21.1%	21	26.3%			
Total	363	100.0%	53	100.0%	19	100.0%	63	100.0%	72	100.0%	76	100.0%	80	100.0%			

Table 5
Comparison of Demographic, Current Stage of Illness, Depression Scores (CES-D), Coping Measures, Health Related Quality of Life, Social Support and Client Satisfaction Among OAN and/or Community Based Organizations

Measures	Service User Groups																					Test Statistics	
	Group Total			Other Users (Non OAN nor CBO users)			OAN users Only			OAN + One CBO user			OAN + Multiple CBO users			One CBO user Only			Multiple CBO users only				
	(n=363)			(N=53)			(N=19)			(N=63)			(N=72)			(N=76)			(N=80)			F-test	p-values
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.		
Demographic																							
Age	355	41.8	8.5	52	41	8	19	43.4	8.2	61	42.7	7.1	70	40.2	8.5	74	43.5	8.8	79	41.2	9.4	1.514	0.185
Current Stage of Illness (KRS, CD4 count)																							
9. What is the length of time that you have been diagnosed with HIV/AIDS (yrs)?	354	8.6	5	50	8.2	4.6	19	8.9	5.8	62	9.8	4.6	68	9	4.7	76	7.9	4.7	78	8.3	5.8	1.188	0.314
Current Stage of illness (KRS scale) (0-100)	347	79.4	16.4	49	82.4	19.2	18	83.3	13.3	62	75.6	15.6	65	76.9	17.8	73	78.1	16	80	82.8	13.9	2.304	0.044
CD4 plus lymphocyte count	228	576.4	703.8	29	552	464.3	10	480.6	278.2	40	615.2	866	45	746	1207	48	528	299.6	56	484	333	0.823	0.534
CD4%*	168	280.1	263.3	24	249	265.3	12	289.1	272.7	30	375.8	332	41	263	216	26	286	282.2	35	233	223.3	1.133	0.345
Depression Score (CES-D)																							
Depression Score (CES-D) (0-60)	355	23.6	12.9	52	20.9	15	17	20.6	11.2	62	23.9	12.8	70	24.2	10.6	75	24.6	12.6	79	24.4	13.7	0.82	0.536
21. How have you been feeling at the present time (1-5)	345	2.9	1	50	3.1	1.3	18	3.3	0.8	61	2.9	0.9	68	2.9	1	71	2.7	1	77	2.9	1	1.285	0.27
Coping Response Measures																							
Cognitive (0-33)	354	20.2	5.9	51	19.5	8	18	19.9	3.5	63	19.9	4.9	69	20.9	5.8	74	19.2	5.6	79	21.2	5.8	1.128	0.345
Active behavioural (0-39)	354	22.6	6.4	52	20.6	7.1	18	23.2	5	63	22.9	6	69	23.4	5.3	73	21.6	6.6	79	24	7.1	2.354	0.04
Avoidance (0-24)	340	7.9	4.1	50	7.4	4.8	18	7	5	57	7.9	4.1	68	8.8	3.7	70	7.6	4.3	77	7.7	3.8	1.156	0.33
Logical analysis (0-12)	355	8	3.2	51	8.1	5.7	18	8.3	2.6	63	8	2.6	70	8.1	2.2	74	7.4	2.7	79	8.6	2.7	1.059	0.383
Information seeking (0-21)	356	11.7	4.2	52	9.7	4.4	18	12.2	3.4	63	12.1	3.7	70	11.9	3.8	74	11.3	3.9	79	12.5	4.7	3.339	0.006
Problem solving (0-15)	353	9.3	2.9	51	8.9	3.3	18	9.2	2.6	63	9.2	2.6	68	9.6	2.3	74	9.1	3.3	79	9.6	3	0.628	0.679
Affective regulation (0-18)	354	10.3	3.6	51	9.8	3.6	18	9.7	2.4	63	9.9	3.3	70	11.1	4.7	73	9.7	3.2	79	10.9	3.4	1.874	0.098
Emotional discharge (0-18)	341	6.4	3.6	50	6	4.4	18	6.2	3.9	57	6.4	3.4	69	7.2	3.5	70	6.2	3.5	77	6.1	3	1.033	0.398
Ways of Coping with a Stressful events																							
Seek PHA support through PHA Caucus (0-3)	314	0.6	0.9	47	0.4	0.8	18	1.1	1.3	62	0.9	1	67	1	1	60	0.3	0.7	60	0.5	0.9	6.355	<0.001
Seek PHA support through OAN (0-3)	315	0.6	0.9	49	0.3	0.8	18	0.9	1.1	63	1	1	66	0.9	1	60	0.3	0.8	59	0.4	0.8	7.005	<0.001
Seek PHA support through friends, family etc (0-3)	319	1.3	1.1	51	0.8	1.1	18	1.7	1	63	1.6	1	69	1.5	1	60	1.2	1.2	58	1.3	1.1	4.767	<0.001
Draw on skills acquired at PHA Caucus meetings (0-3)	314	0.6	0.9	50	0.3	0.8	18	1.1	1	63	1	1	65	0.9	1	59	0.3	0.7	59	0.4	0.8	8.803	<0.001

Table 5
Comparison of Demographic, Current Stage of Illness, Depression Scores (CES-D), Coping Measures, Health Related Quality of Life, Social Support and Client Satisfaction Among OAN and/or Community Based Organizations

Measures	Group Total			Service User Groups																		Test Statistics	
				Other Users (Non OAN nor CBO users)			OAN users Only			OAN + One CBO user			OAN + Multiple CBO users			One CBO user Only			Multiple CBO users only				
	(n=363)			(N=53)			(N=19)			(N=63)			(N=72)			(N=76)			(N=80)			F-test	p-values
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.		
Draw on skills acquired at OAN workshops (0-3)	319	0.7	1	50	0.4	0.8	18	1.3	1	63	1	1	69	1.1	1	60	0.3	0.7	59	0.3	0.7	11.59	<0.001
Health Related Quality of Life Dimensions (Raw scores)																							
General Health Perceptions (5-25)	359	13.9	5.1	52	15.0	5.3	19	15.3	4.3	61	13.6	4.9	72	14.0	5.4	76	13.3	5.3	79	13.8	5.0	1.007	0.413
Physical Function (6-18)	360	14.4	3.1	53	14.4	3.7	19	14.5	2.2	63	13.8	3.2	71	13.9	3.4	74	14.5	2.7	80	15.0	3.0	1.482	0.195
Role Function (2-4)	362	2.8	0.9	53	3.1	1.0	19	2.7	0.7	63	2.6	0.8	72	2.7	0.8	75	2.7	0.8	80	2.8	0.9	1.954	0.085
Social Function (1-6)	359	4.3	1.5	53	4.5	1.6	19	4.3	1.1	63	4.1	1.4	71	4.0	1.6	74	4.4	1.4	79	4.4	1.4	1.107	0.356
Cognitive Function (4-24)	362	16.9	5.3	53	17.3	5.9	19	17.4	5.8	63	17.2	5.0	72	16.4	5.0	76	16.5	5.1	79	17.3	5.5	0.454	0.810
Pain (2-11)	363	7.2	2.3	53	8.0	2.5	19	7.3	2.4	63	7.0	2.1	72	7.0	2.2	76	7.0	2.4	80	7.2	2.4	1.551	0.173
Mental Function (5-30)	362	19.8	5.3	53	20.5	6.3	19	21.5	4.6	63	19.3	5.6	72	19.3	5.0	75	19.8	5.6	80	20.1	4.7	0.867	0.504
Energy/Fatigue (4-24)	362	13.3	4.2	53	14.3	4.5	19	13.8	3.5	63	13.0	4.3	72	13.4	3.8	75	12.8	4.5	80	13.2	4.3	0.986	0.426
Health Distress (4-24)	363	16.2	5.3	53	16.2	6.3	19	16.9	5.7	63	16.0	5.7	72	15.5	4.8	76	16.4	4.7	80	16.7	5.3	0.502	0.775
Quality of life (1-5)	360	3.3	0.9	51	3.5	1.0	19	3.4	1.0	63	3.3	0.9	72	3.4	0.9	76	3.2	0.9	79	3.4	0.9	1.018	0.407
Health Transition (1-6)	360	3.3	1.0	51	3.2	0.9	19	3.2	1.2	63	3.3	1.0	72	3.4	1.0	76	3.1	0.9	79	3.4	1.0	1.100	0.360
Total Physical Health Summary Raw Scores	362	55.8	13.5	53	59.2	14	19	57.8	10.6	63	53.8	13.3	72	55.0	13.9	75	54.8	13.6	80	56.4	13.2	1.184	0.316
Total Mental Health Summary Raw Scores	363	87.9	21.6	53	91.5	24.4	19	92.5	20.3	63	86.3	22.9	72	86.1	20.2	76	86.3	20.6	80	88.9	21.1	0.761	0.579
Health Related Quality of Life Dimensions (Index Score (0-100))																							
General Health Perception	359	44.6	25.6	52	49.8	26.4	19	51.3	21.6	61	42.8	24.3	72	44.8	26.8	76	41.3	26.3	79	44.0	25.1	1.007	0.413
Physical Function	360	69.6	26.2	53	69.9	30.5	19	70.6	18.7	63	65.0	26.4	71	65.8	28.4	74	70.7	22.4	80	75.3	25.1	1.482	0.195
Role Function	362	38.3	43.6	53	54.7	48.3	19	36.8	36.7	63	31.7	42.4	72	36.1	41.3	75	34.7	41.9	80	38.1	45.2	1.954	0.085
Social Function	359	65.7	29.0	53	70.9	31.8	19	65.3	22.9	63	61.9	27.1	71	60.8	32.3	74	67.8	28.4	79	67.6	27.2	1.107	0.356
Cognitive Function	362	64.6	26.4	53	66.3	29.6	19	66.8	29.1	63	65.9	25.1	72	61.9	25.0	76	62.3	25.4	79	66.6	27.3	0.454	0.810
Pain function	363	57.7	25.9	53	66.5	27.3	19	58.5	27.2	63	55.0	22.9	72	55.4	24.8	76	55.8	26.4	80	57.6	27.0	1.551	0.173
Mental Health	362	59.4	21.4	53	62.0	25.2	19	66.1	18.5	63	57.2	22.6	72	57.1	19.9	75	59.1	22.2	80	60.3	18.8	0.867	0.504
Energy/Fatigue	362	46.6	21.1	53	51.7	22.4	19	48.9	17.4	63	44.8	21.3	72	46.9	19.0	75	44.0	22.3	80	46.2	21.3	0.986	0.426
Health Distress	363	61.1	26.6	53	61.1	31.6	19	64.7	28.4	63	59.8	28.4	72	57.5	23.9	76	62.0	23.7	80	63.5	26.4	0.502	0.775
Quality of Life	360	58.5	23.3	51	61.3	25.6	19	59.2	25.3	63	56.7	21.6	72	60.1	23.6	76	53.9	23.5	79	60.8	21.8	1.018	0.407
Health Transition	360	57.6	24.5	51	55.9	22.1	19	55.3	29.6	63	57.9	24.5	72	60.1	24.3	76	53.0	23.4	79	61.1	25.6	1.100	0.360
Physical Health Summary index score	362	52.7	19.8	53	57.6	20.6	19	55.6	15.6	63	49.7	19.5	72	51.5	20.5	75	51.1	20.1	80	53.5	19.5	1.184	0.316

Table 5
Comparison of Demographic, Current Stage of Illness, Depression Scores (CES-D), Coping Measures, Health Related Quality of Life, Social Support and Client Satisfaction Among OAN and/or Community Based Organizations

Measures	Group Total (n=363)			Service User Groups																		Test Statistics	
				Other Users (Non OAN nor CBO users) (N=53)			OAN users Only (N=19)			OAN + One CBO user (N=63)			OAN + Multiple CBO users (N=72)			One CBO user Only (N=76)			Multiple CBO users only (N=80)				
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	F-test	p-values
Mental Health Summary index score	363	56.1	18.9	53	59.2	21.4	19	60.1	17.8	63	54.7	20.1	72	54.4	17.7	76	54.6	18.1	80	57	18.5	0.761	0.579
Social Support Scales																							
Confidant Support (5-30)	361	15.5	7	52	15.2	7.6	19	14.5	6.1	63	14.7	7.2	71	15.8	6.4	76	16.6	7.1	80	15.2	7	0.65	0.662
Affective Support (3-18)	360	8.9	4.3	52	8.8	4.3	19	7.7	4.7	63	8.1	4.1	71	9	4.1	75	8.8	4.6	80	9.9	4.3	1.54	0.177
Client Satisfaction Total scores based on OAN PHA Program, Caucus, and other services of OAN (8-32)																							
PHA Program	172	24.4	4.9	15	22	6.7	16	24.6	5.2	51	24.4	4.9	67	24.5	4.6	11	24.9	4.2	12	25.7	4.6	0.901	0.482
PHA Caucus	152	22.9	5.3	14	21.2	7.1	15	21.9	5.9	46	22.8	5.2	61	23.1	4.9	6	24.5	5.8	10	25.3	4.6	0.94	0.457
Other OAN Services	166	24.2	5	14	21	6.9	18	24.5	5.8	44	23.9	5	62	24.6	4.5	13	24.7	4.5	15	25.5	4.2	1.479	0.199

*Suspicious result

Table 6
Utilization by Type of User Group
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO User Groups

	Group Total			Neither OAN nor CBO users			OAN users Only			OAN + one CBO users			OAN + multiple CBO users			One CBO user			Multiple CBO users			Test Statistics	
	Count	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW test	p-values
Direct Cost																							
Family physician (primary care)	361	300.2	372.4	52	189.6	248.0	19	297.5	377.3	63	317.5	406.5	72	297.5	333.9	76	284.9	303.4	79	377.0	480.9	6.62	0.25
Infectious disease/HIV specialist	361	424.2	528.8	52	485.4	539.6	19	343.7	620.5	63	397.6	557.2	72	456.1	530.0	76	409.9	536.0	79	409.2	475.9	3.32	0.65
Physician Specialist	361	590.2	992.9	52	347.4	666.1	19	825.9	1071.0	63	510.0	986.0	72	899.9	1319.8	76	460.1	873.1	79	600.4	860.8	12.65	0.03
Emergency department physician and service	361	598.7	2846.4	52	406.6	1723.2	19	123.6	538.9	63	410.2	1303.1	72	554.7	1448.3	76	1020.0	5429.6	79	624.4	1869.8	3.26	0.66
Psychiatrist (mental health specialist)	361	109.7	349.3	52	80.4	350.7	19	97.4	231.9	63	103.5	374.0	72	78.2	227.7	76	79.3	246.0	79	194.8	494.0	5.30	0.38
Optometrist	361	33.7	154.9	52	32.3	139.2	19	36.3	158.3	63	26.7	126.8	72	61.7	226.0	76	26.1	120.0	79	21.3	134.9	2.59	0.76
Chiropractor	361	35.6	207.9	52	6.5	47.1	19	34.2	102.5	63	29.5	120.9	72	69.9	359.4	76	8.2	49.9	79	55.3	247.4	4.48	0.48
Naturopath / homeopath	361	68.2	352.0	52	0.0	0.0	19	0.0	0.0	63	25.1	199.0	72	38.1	246.7	76	86.7	541.4	79	173.7	430.1	27.98	0.00
Nutritionist	361	32.9	166.9	52	12.1	86.9	19	63.2	189.2	63	33.8	155.1	72	64.0	269.8	76	7.9	68.8	79	34.5	153.1	5.27	0.38
Nurse Practitioner	361	18.1	87.7	52	17.3	60.5	19	47.4	94.2	63	28.6	124.5	72	31.3	127.0	76	5.9	51.6	79	2.8	25.3	15.21	0.01
Visiting nurse (Home Care/PH/VON/SEN)	361	52.5	348.8	52	27.3	111.5	19	27.6	120.4	63	23.4	105.5	72	141.0	715.6	76	6.9	60.2	79	61.3	246.6	5.20	0.39
Physiotherapist	361	49.9	451.4	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	23.8	141.9	76	11.3	98.4	79	195.4	940.8	9.66	0.09
Occupational therapist	361	20.4	240.5	52	20.2	145.7	19	0.0	0.0	63	0.0	0.0	72	58.4	495.3	76	13.8	120.5	79	13.3	118.2	1.33	0.93
Psychologist/ Psychotherapy	361	131.6	612.1	52	76.2	384.5	19	104.2	454.2	63	220.0	804.0	72	165.0	643.5	76	104.2	715.3	79	100.3	436.9	2.60	0.76
Social worker	361	355.1	1000.0	52	131.1	406.0	19	287.1	730.1	63	324.7	680.4	72	416.8	1089.2	76	287.1	953.2	79	552.5	1407.3	4.61	0.47
Family Counsellor/Counsellor	361	61.7	402.6	52	0.0	0.0	19	0.0	0.0	63	129.7	651.5	72	70.1	389.4	76	69.2	296.2	79	47.8	425.3	5.20	0.39
Addictions Counsellor	361	79.8	538.2	52	0.0	0.0	19	0.0	0.0	63	19.0	151.2	72	83.3	581.2	76	15.8	137.6	79	258.2	973.6	12.59	0.03
Needle exchange program	361	2.0	17.6	52	1.4	9.9	19	0.0	0.0	63	0.0	0.0	72	3.0	14.4	76	0.9	8.2	79	4.5	33.1	3.78	0.58
Support groups / peer support	361	64.9	205.6	52	21.5	87.6	19	58.7	139.4	63	82.7	245.0	72	51.7	179.9	76	78.3	204.3	79	80.1	257.4	4.00	0.55
Health education / prevention talks	361	18.2	114.0	52	0.0	0.0	19	23.1	100.5	63	13.9	77.4	72	42.6	196.7	76	11.5	70.6	79	16.6	109.6	3.63	0.60
Recreation activities	361	5.8	36.8	52	1.7	12.6	19	0.0	0.0	63	7.2	29.6	72	10.1	53.9	76	2.4	14.6	79	8.0	50.7	3.14	0.68
Financial assistance program	361	19.9	92.1	52	7.7	55.5	19	21.1	91.8	63	0.0	0.0	72	44.4	126.6	76	21.1	89.9	79	20.3	109.1	10.69	0.06

Table 6
Utilization by Type of User Group
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO User Groups

	Group Total			Neither OAN nor CBO users			OAN users Only			OAN + one CBO users			OAN + multiple CBO users			One CBO user			Multiple CBO users			Test Statistics	
	Count	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW test	p-values
Advocacy services	361	69.8	478.7	52	0.0	0.0	19	94.7	412.9	63	57.1	318.1	72	175.0	914.3	76	23.7	206.5	79	68.4	346.2	3.40	0.64
Probationary officer	361	6.6	88.9	52	0.0	0.0	19	0.0	0.0	63	19.0	150.7	72	16.6	141.0	76	0.0	0.0	79	0.0	0.0	3.38	0.64
In Jail/penitentiary	361	108.9	1660.4	52	0.0	0.0	19	0.0	0.0	63	480.0	3809.9	72	126.0	1069.3	76	0.0	0.0	79	0.0	0.0	3.38	0.64
Other Health or Social Service	361	9.1	73.0	52	0.0	0.0	19	0.0	0.0	63	8.6	68.5	72	16.7	99.2	76	20.4	109.6	79	0.0	0.0	5.52	0.36
Meal /Soup Kitchen	361	0.6	10.7	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	2.6	23.0	3.57	0.61
Food Bank (ASO, or community-based)	361	153.3	427.7	52	37.9	164.3	19	0.0	0.0	63	156.3	351.8	72	286.1	666.7	76	114.0	337.5	79	180.6	425.6	13.39	0.02
Private personal nurse (paid, not home care)	361	0.0	0.0	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	0.0	0.0	0.00	1.00
General homemakers e.g. Visiting Homemaker Assoc	361	85.2	652.4	52	34.1	245.8	19	0.0	0.0	63	263.7	1386.2	72	95.4	543.7	76	31.3	214.1	79	39.3	223.7	2.95	0.71
Grocery Delivery	361	0.0	0.0	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	0.0	0.0	0.00	1.00
House Cleaning only	361	63.1	535.4	52	38.1	274.6	19	0.0	0.0	63	18.9	149.7	72	110.0	933.4	76	23.7	206.5	79	125.3	641.3	3.98	0.55
Child or Adult care	361	3.3	63.2	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	15.8	137.6	79	0.0	0.0	3.75	0.59
Employment retraining program	361	21.9	211.7	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	66.0	415.1	76	0.0	0.0	79	40.1	216.0	7.30	0.20
Financial Services (advice /assistance with budgeting, banking, paying bills or taxes	361	2.2	41.1	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	9.9	87.8	3.57	0.61
Other community paid support services	361	37.7	320.2	52	0.0	0.0	19	0.0	0.0	63	55.9	387.0	72	6.5	38.7	76	89.7	507.8	79	35.5	315.9	3.36	0.64
Use of unpaid/voluntary community support services	361	1006.1	3992.0	52	822.0	5536.5	19	110.5	281.6	63	718.3	2492.0	72	951.7	2070.7	76	2001.5	6427.9	79	664.1	1883.9	22.27	0.00
Outpatient Laboratory test	361	1071.7	1632.7	52	847.4	975.0	19	1582.4	2362.0	63	1234.2	1797.0	72	1087.8	1405.6	76	988.2	1786.9	79	1032.5	1682.7	2.34	0.80
Medical Procedures	359	112.6	522.4	52	61.9	236.6	19	56.2	108.9	63	176.7	1037.5	72	161.3	520.0	76	101.3	296.6	80	76.3	212.0	2.97	0.71
Blood works/tests	361	493.1	557.2	52	522.4	595.5	19	487.8	626.9	63	581.3	599.3	72	544.7	610.7	76	391.3	458.1	79	455.4	512.5	2.95	0.71
Outpatient Diagnostic tests	361	466.7	1245.2	52	263.1	621.0	19	1038.3	2082.7	63	481.7	1246.0	72	381.7	887.4	76	495.6	1451.4	79	500.9	1345.6	4.66	0.46
911- Services	361	16.3	110.2	52	10.8	54.3	19	0.0	0.0	63	4.4	35.3	72	31.1	110.7	76	29.5	197.0	79	7.1	63.0	7.33	0.20

Table 6
Utilization by Type of User Group
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO User Groups

	Group Total			Neither OAN nor CBO users			OAN users Only			OAN + one CBO users			OAN + multiple CBO users			One CBO user			Multiple CBO users			Test Statistics	
	Count	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW test	p-values
Ambulance Services	361	195.5	1372.0	52	282.7	2038.5	19	0.0	0.0	63	46.7	370.4	72	326.7	1163.0	76	309.5	2069.4	79	74.4	661.6	8.18	0.15
Medication cost	353	9444.4	9740.1	52	7353.6	9710.8	18	13343.1	9558.9	60	10687.3	8595.1	71	6938.7	8247.6	74	11244.9	11353.8	78	9555.3	9683.6	19.95	0.00
Complementary Therapies used	359	277.0	912.7	52	206.9	865.3	19	455.5	799.1	63	202.5	498.3	72	156.3	414.0	74	359.4	1532.4	79	372.4	768.3	7.58	0.18
Supplies, aids or special devices purchased/leased	361	227.9	2060.7	52	191.8	894.5	19	0.0	0.0	63	0.0	0.0	72	216.6	1576.5	76	647.4	4060.9	79	94.9	843.8	5.28	0.38
Parking cost	361	3.2	36.7	52	0.0	0.0	19	3.2	13.8	63	0.0	0.0	72	12.6	80.0	76	2.6	16.0	79	0.0	0.0	6.65	0.25
Mileage cost	361	7.0	66.7	52	13.8	99.8	19	0.0	0.0	63	8.6	68.0	72	0.0	0.0	76	16.6	102.6	79	0.0	0.0	3.95	0.56
Other transportation (cab, bus, train, plane) expenses	361	51.1	258.0	52	48.5	258.4	19	147.5	360.8	63	72.6	360.7	72	34.5	161.9	76	49.8	290.7	79	29.0	146.7	3.39	0.64
Direct Cost Without Hospital Cost	361	16721.5	18337.0	52	11752.0	13291.3	19	17425.6	10577.3	63	16228.1	12236.7	72	17219.1	23573.5	76	19621.4	23646.6	79	16973.6	14926.5	13.81	0.02
Hospital stay cost	361	2641.3	19374.9	52	753.6	3804.5	19	515.6	2247.4	63	3420.9	19762.2	72	7800.7	38008.0	76	1675.7	7900.1	79	0.0	0.0	8.92	0.11
Direct Cost Including Hospital Cost	361	19362.8	28565.7	52	12505.6	13386.3	19	17941.2	11127.8	63	19649.0	22144.7	72	25019.8	50404.4	76	21297.0	25481.3	79	16973.6	14926.5	11.27	0.05
Out of Pocket Cost																							
Meal Services	361	9.0	129.6	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	35.0	283.0	76	0.0	0.0	79	9.3	61.5	5.63	0.34
Private personal nurse (paid, not home care)	361	57.9	590.4	52	0.0	0.0	19	0.0	0.0	63	102.1	810.4	72	0.0	0.0	76	0.0	0.0	79	183.2	1029.5	7.77	0.17
General homemakers e.g. Visiting Homemaker Assoc	361	0.0	0.0	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	0.0	0.0	0.00	1.00
Grocery Delivery	361	1.0	11.1	52	0.0	0.0	19	0.0	0.0	63	3.2	19.5	72	0.0	0.0	76	0.0	0.0	79	1.8	16.2	6.19	0.29
House Cleaning only	361	30.7	217.6	52	38.1	274.6	19	0.0	0.0	63	95.0	377.7	72	0.0	0.0	76	26.8	207.9	79	13.7	98.0	6.27	0.28
Child or Adult care	361	26.1	291.4	52	0.0	0.0	19	0.0	0.0	63	57.1	324.6	72	14.2	120.2	76	63.2	550.6	79	0.0	0.0	4.21	0.52
Employment retraining program	361	0.0	0.0	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	0.0	0.0	0.00	1.00
Financial Services (advice /assistance with budgeting, banking, paying bills or taxes)	361	2.0	37.9	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	10.0	84.9	76	0.0	0.0	79	0.0	0.0	4.01	0.55
Other health and social services	361	10.3	141.2	52	0.0	0.0	19	0.0	0.0	63	19.0	151.2	72	33.3	282.8	76	0.0	0.0	79	1.5	13.5	2.12	0.83
Medications	353	571.0	2266.6	52	297.9	975.1	18	219.8	629.1	60	1243.3	4769.9	71	314.3	892.5	74	724.8	1760.5	78	404.7	1062.7	7.08	0.22

Table 6
Utilization by Type of User Group
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO User Groups

	Group Total			Neither OAN nor CBO users			OAN users Only			OAN + one CBO users			OAN + multiple CBO users			One CBO user			Multiple CBO users			Test Statistics	
	Count	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW test	p-values
Complementary Therapies used	359	381.5	1028.0	52	120.9	428.2	19	385.4	635.7	63	423.6	1176.7	72	209.8	581.6	74	543.4	1179.2	79	523.2	1344.5	12.53	0.03
Supplies, aids or special devices purchased/leased	361	105.9	1224.2	52	32.1	176.5	19	310.1	1094.0	63	12.4	98.3	72	26.2	222.0	76	57.3	313.4	79	299.2	2531.0	4.97	0.42
Parking cost	361	62.2	481.8	52	29.5	83.0	19	31.6	70.3	63	60.0	301.3	72	62.7	278.9	76	133.7	970.6	79	23.8	96.6	4.73	0.45
Mileage cost	361	158.8	1580.7	52	718.7	4014.0	19	11.4	27.4	63	82.6	224.8	72	48.9	233.8	76	130.6	823.4	79	13.7	59.2	8.31	0.14
Other transportation (cab, bus, train, plane) expenses	361	213.3	613.1	52	214.2	1178.4	19	17.1	51.4	63	226.4	547.0	72	229.4	497.6	76	190.8	439.1	79	256.4	406.8	19.55	0.00
Total Out of Pocket Cost	361	1614.9	3747.5	52	1451.4	4338.8	19	963.7	1687.9	63	2265.6	5141.5	72	979.4	1546.7	76	1837.2	2969.7	79	1725.4	4391.5	9.83	0.08
Grand Total Cost																							
Excluding hospital cost	361	18336.4	19102.6	52	13203.4	14957.0	19	18389.3	11103.0	63	18493.6	12953.0	72	18198.5	23785.5	76	21458.6	24022.8	79	18699.0	16703.2	15.01	0.01
Including hospital cost	361	20977.7	28989.0	52	13957.0	14967.2	19	18904.9	11583.5	63	21914.5	22373.4	72	25999.2	50421.2	76	23134.2	25848.6	79	18699.0	16703.2	12.75	0.03
Cash Transfer Cost																							
Workplace Safety and Insurance Information Board (WSIB)	361	39.0	477.1	52	0.0	0.0	19	193.7	844.2	63	0.0	0.0	72	0.0	0.0	76	137.1	948.9	79	0.0	0.0	9.72	0.08
Ontario Disability Support Program (ODSP)	361	3675.1	4935.7	52	2199.2	4068.2	19	3533.0	4802.3	63	3045.5	5037.3	72	3754.3	4625.9	76	4316.6	5392.0	79	4493.3	5082.0	11.28	0.05
Canada Pensions	361	2631.6	4300.6	52	2012.3	3829.0	19	4400.7	4935.0	63	3107.3	4219.7	72	2738.8	4251.5	76	2547.0	4572.8	79	2218.2	4248.7	7.68	0.18
Company Pensions	355	348.6	2353.5	51	134.0	957.3	18	546.1	1602.7	61	574.4	4486.4	72	93.7	794.8	75	449.8	1751.5	78	404.9	2221.3	6.66	0.25
Old Age Security	361	47.6	522.4	52	0.0	0.0	19	0.0	0.0	63	20.1	159.4	72	90.4	766.9	76	124.0	848.0	79	0.0	0.0	3.47	0.63
GAINS	361	17.5	333.3	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	80.2	712.4	3.57	0.61
Veterans' Benefit	361	11.3	214.7	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	53.7	468.0	79	0.0	0.0	3.75	0.59
Survivor Benefits	361	22.4	271.3	52	0.0	0.0	19	189.5	825.9	63	0.0	0.0	72	12.2	103.2	76	47.4	412.9	79	0.0	0.0	6.65	0.25
Family Benefits Allowance	361	280.0	1472.3	52	147.0	1060.0	19	0.0	0.0	63	391.1	1792.1	72	417.7	1685.7	76	0.0	0.0	79	490.0	1987.9	9.52	0.09
Welfare or Social Assistance	361	477.4	2181.8	52	322.3	1250.8	19	41.1	178.9	63	333.5	1338.0	72	416.8	1576.7	76	523.7	1934.6	79	810.1	3668.5	0.70	0.98
Employment Insurance	361	77.4	975.5	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	221.1	1927.1	79	141.0	884.0	7.49	0.19
Other government cheque (Child tax credit, GST, income tax rebate)	361	7.6	77.4	52	0.0	0.0	19	16.6	72.5	63	21.3	147.1	72	11.0	93.3	76	0.0	0.0	79	3.5	31.5	5.36	0.37
Private Insurance	349	1477.0	5925.8	50	910.0	3385.2	18	1469.3	4319.6	59	1454.8	5779.7	71	2078.8	7140.0	74	1081.5	4403.2	77	1689.4	7576.8	2.83	0.73

Table 6
Utilization by Type of User Group
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO User Groups

	Group Total			Neither OAN nor CBO users			OAN users Only			OAN + one CBO users			OAN + multiple CBO users			One CBO user		Multiple CBO users		Test Statistics			
	Count	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW test	p-values
Total Cash Transfer Cost	361	8718.2	8258.5	52	5555.9	6079.6	19	9766.5	7209.7	63	8281.3	8052.7	72	9491.0	8902.7	76	9023.4	6394.0	79	9898.1	10318.9	15.79	0.01
Other Source of Income																							
Investment Income	358	102.8	1498.2	50	528.0	3733.5	18	0.0	0.0	63	165.1	1310.3	72	0.0	0.0	76	0.0	0.0	79	0.0	0.0	4.44	0.49
Salary	346	1625.8	9079.6	49	3284.7	13659.2	17	0.0	0.0	58	1235.9	5466.5	70	1014.6	4393.6	75	2881.3	14328.8	77	555.3	3317.4	2.79	0.73
Help from ASO	361	3.3	63.2	52	0.0	0.0	19	0.0	0.0	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	15.2	135.0	3.57	0.61
Other Source of Income	361	24.6	408.9	52	0.0	0.0	19	404.2	1761.9	63	0.0	0.0	72	0.0	0.0	76	0.0	0.0	79	15.2	135.0	9.85	0.08
Total Source of Income	361	2027.6	9241.2	52	3734.4	13650.2	19	921.5	2259.3	63	1859.1	6851.1	72	1080.1	4385.4	76	3287.3	14253.3	79	956.2	3896.9	1.82	0.87

Table 7
Service Information and Demographic By Intensity of CBO Service Use

	Service Users of Community Based Organization												Test Statistics	
	Total		Non user		Low Intensity Users (1-10 times)		Medium Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times & Up)			
	N	%	N	%	N	%	N	%	N	%	N	%	Chi-square	p-values
1. Age														
20-29	24	6.70%	6	8.30%	4	5.80%	5	6.90%	3	4.70%	6	7.60%		
30-39	125	35.10%	24	33.30%	26	37.70%	25	34.70%	23	35.90%	27	34.20%		
40-49	148	41.60%	31	43.10%	24	34.80%	30	41.70%	25	39.10%	38	48.10%	9.743	0.880
50-59	48	13.50%	9	12.50%	14	20.30%	10	13.90%	10	15.60%	5	6.30%		
60-69	11	3.10%	2	2.80%	1	1.40%	2	2.80%	3	4.70%	3	3.80%		
Total	356	100.00%	72	100.00%	69	100.00%	72	100.00%	64	100.00%	79	100.00%		
2. Gender														
Male	283	78.00%	64	87.70%	54	77.10%	57	78.10%	49	74.20%	59	72.80%		
Female	75	20.70%	8	11.00%	15	21.40%	16	21.90%	15	22.70%	21	25.90%	8.231	0.411
Transgender	5	1.40%	1	1.40%	1	1.40%	0	0.00%	2	3.00%	1	1.20%		
Total	363	100.00%	73	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
3. Highest level of education you have obtained														
Grade school	29	8.00%	5	6.80%	7	10.00%	7	9.70%	5	7.70%	5	6.20%		
High school or equivalent	96	26.60%	20	27.40%	19	27.10%	14	19.40%	18	27.70%	25	30.90%		
Some/complete college	116	32.10%	25	34.20%	22	31.40%	21	29.20%	21	32.30%	27	33.30%		
Some/complete university	109	30.20%	23	31.50%	18	25.70%	27	37.50%	21	32.30%	20	24.70%	17.509	0.620
Other	10	2.80%	0	0.00%	4	5.70%	2	2.80%	0	0.00%	4	4.90%		
Professional Degree	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
Total	361	100.00%	73	100.00%	70	100.00%	72	100.00%	65	100.00%	81	100.00%		
4. Marital Status														
Single/Never Married	187	51.50%	41	56.20%	31	44.30%	36	49.30%	34	51.50%	45	55.60%		
Divorced/Separated/Widow	68	18.70%	10	13.70%	13	18.60%	12	16.40%	19	28.80%	14	17.30%	10.399	0.238
Married/Common-law/ Partner	108	29.80%	22	30.10%	26	37.10%	25	34.20%	13	19.70%	22	27.20%		
Total	363	100.00%	73	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
5. What are your current living arrangements?														
Your house/apartment	252	69.60%	54	74.00%	47	67.10%	57	79.20%	47	71.20%	47	58.00%		
Transitional housing	19	5.20%	2	2.70%	3	4.30%	4	5.60%	4	6.10%	6	7.40%		
Homeless/street	6	1.70%	1	1.40%	1	1.40%	0	0.00%	1	1.50%	3	3.70%		
Someone else's house/apartment	38	10.50%	8	11.00%	13	18.60%	5	6.90%	7	10.60%	5	6.20%		
Residential housing subsidized	43	11.90%	7	9.60%	5	7.10%	6	8.30%	6	9.10%	19	23.50%	42.647	0.099
Hospital	1	0.30%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	0	0.00%		
Recovery Home	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Supportive Housing	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Co-op	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
Total	362	100.00%	73	100.00%	70	100.00%	72	100.00%	66	100.00%	81	100.00%		
6. Geographic location														
City core	246	68.90%	47	65.30%	47	67.10%	51	69.90%	45	71.40%	56	70.90%		
Rural	38	10.60%	10	13.90%	12	17.10%	10	13.70%	4	6.30%	2	2.50%		
City suburbs	42	11.80%	9	12.50%	6	8.60%	9	12.30%	9	14.30%	9	11.40%	17.249	0.140
GTA	31	8.70%	6	8.30%	5	7.10%	3	4.10%	5	7.90%	12	15.20%		
Total	357	100.00%	72	100.00%	70	100.00%	73	100.00%	63	100.00%	79	100.00%		
7. Citizenship status														
Canadian Citizen	323	89.20%	66	90.40%	62	89.90%	69	94.50%	56	84.80%	70	86.40%		
Landed Immigrant	22	6.10%	4	5.50%	4	5.80%	3	4.10%	3	4.50%	8	9.90%		
Refugee	13	3.60%	2	2.70%	2	2.90%	0	0.00%	6	9.10%	3	3.70%		
Visitor/Tourist	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	23.122	0.283
First Nations	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Diplomat	2	0.60%	1	1.40%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		

Table 7
Service Information and Demographic By Intensity of CBO Service Use

	Service Users of Community Based Organization												Test Statistics	
	Total		Non user		Low Intensity Users (1-10 times)		Medium Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times & Up)			
	N	%	N	%	N	%	N	%	N	%	N	%	Chi-square	p-values
Total	362	100.00%	73	100.00%	69	100.00%	73	100.00%	66	100.00%	81	100.00%		
8. Do you currently live with someone?														
Live alone	179	49.30%	38	52.10%	28	40.00%	35	47.90%	38	57.60%	40	49.40%		
Spouse or partner	77	21.20%	14	19.20%	19	27.10%	17	23.30%	10	15.20%	17	21.00%		
Spouse/partner and Friends	4	1.10%	0	0.00%	0	0.00%	3	4.10%	1	1.50%	0	0.00%		
Spouse/partner and Children	15	4.10%	1	1.40%	6	8.60%	4	5.50%	3	4.50%	1	1.20%		
Spouse/partner and family members	2	0.60%	1	1.40%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	54.694	0.061
Spouse/partner/friends and family members	1	0.30%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	0	0.00%		
Friend(s)	27	7.40%	6	8.20%	4	5.70%	3	4.10%	10	15.20%	4	4.90%		
Children	23	6.30%	3	4.10%	7	10.00%	4	5.50%	3	4.50%	6	7.40%		
Children and Family members	2	0.60%	2	2.70%	0	0.00%	0	0.00%	0	0.00%	0	0.00%		
Family members	15	4.10%	4	5.50%	3	4.30%	3	4.10%	0	0.00%	5	6.20%		
Others	18	5.00%	3	4.10%	3	4.30%	3	4.10%	1	1.50%	8	9.90%		
Total	363	100.00%	73	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
8b. Do you live with a caregiver?														
Yes	33	9.10%	7	9.60%	4	5.70%	7	9.60%	9	13.60%	6	7.40%		
No	330	90.90%	66	90.40%	66	94.30%	66	90.40%	57	86.40%	75	92.60%	2.937	0.568
Total	363	100.00%	73	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
10a. Do you identify with a particular community?														
MSM														
Yes	50	13.80%	9	12.50%	10	14.30%	17	23.30%	6	9.10%	8	9.90%		
No	312	86.20%	63	87.50%	60	85.70%	56	76.70%	60	90.90%	73	90.10%	7.913	0.095
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
IDU														
Yes	23	6.40%	4	5.60%	4	5.70%	4	5.50%	2	3.00%	9	11.10%		
No	339	93.60%	68	94.40%	66	94.30%	69	94.50%	64	97.00%	72	88.90%	4.525	0.340
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
HIV endemic countries														
Yes	20	5.50%	5	6.90%	5	7.10%	1	1.40%	3	4.50%	6	7.40%		
No	342	94.50%	67	93.10%	65	92.90%	72	98.60%	63	95.50%	75	92.60%	3.715	0.446
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Heterosexual														
Yes	85	23.50%	8	11.10%	21	30.00%	22	30.10%	12	18.20%	22	27.20%		
No	277	76.50%	64	88.90%	49	70.00%	51	69.90%	54	81.80%	59	72.80%	11.229	0.024
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Bisexual														
Yes	46	12.70%	12	16.70%	8	11.40%	7	9.60%	8	12.10%	11	13.60%		
No	316	87.30%	60	83.30%	62	88.60%	66	90.40%	58	87.90%	70	86.40%	1.837	0.766
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
HIV-T (Transfusion)														
Yes	11	3.00%	2	2.80%	3	4.30%	2	2.70%	1	1.50%	3	3.70%		
No	351	97.00%	70	97.20%	67	95.70%	71	97.30%	65	98.50%	78	96.30%	1.05	0.902
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Male														
Yes	220	60.80%	47	65.30%	39	55.70%	44	60.30%	42	63.60%	48	59.30%		
No	142	39.20%	25	34.70%	31	44.30%	29	39.70%	24	36.40%	33	40.70%	1.677	0.795
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		

Table 7
Service Information and Demographic By Intensity of CBO Service Use

	Service Users of Community Based Organization												Test Statistics	
	Total		Non user		Low Intensity Users (1-10 times)		Medium Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times & Up)			
	N	%	N	%	N	%	N	%	N	%	N	%	Chi-square	p-values
Female														
Yes	75	20.70%	11	15.30%	17	24.30%	14	19.20%	17	25.80%	16	19.80%		
No	287	79.30%	61	84.70%	53	75.70%	59	80.80%	49	74.20%	65	80.20%	3.012	0.556
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Transgender														
Yes	12	3.30%	3	4.20%	5	7.10%	1	1.40%	2	3.00%	1	1.20%		
No	350	96.70%	69	95.80%	65	92.90%	72	98.60%	64	97.00%	80	98.80%	5.335	0.255
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Aboriginal														
Yes	27	7.50%	5	6.90%	6	8.60%	6	8.20%	4	6.10%	6	7.40%		
No	335	92.50%	67	93.10%	64	91.40%	67	91.80%	62	93.90%	75	92.60%	0.402	0.982
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Ethno-specific														
Yes	31	8.60%	4	5.60%	7	10.00%	5	6.80%	6	9.10%	9	11.10%		
2nd generation Canadian	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
African-Canadian	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
African	4	1.10%	1	1.40%	0	0.00%	0	0.00%	1	1.50%	2	2.50%		
Black	3	0.80%	0	0.00%	0	0.00%	2	2.70%	1	1.50%	0	0.00%		
Caribbean	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Croatian	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
East Indian	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
Europeans	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Filipino	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	1.985	0.738
French Cdn	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
German-Gypsy	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
German	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Italian-Canadian	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
Jewish	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
Latin-America	2	0.50%	0	0.00%	1	1.40%	0	0.00%	1	1.50%	0	0.00%		
Queer/gay	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
South Asian	2	0.50%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Sub-Sahara	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Uganda	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
White-Jewish	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
Not Stated	5	1.40%	2	2.70%	1	1.40%	1	1.40%	0	0.00%	1	1.20%		
No	331	91.40%	68	94.40%	63	90.00%	68	93.20%	60	90.90%	72	88.90%		
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Street Involved														
Yes	22	6.10%	5	6.90%	3	4.30%	2	2.70%	3	4.50%	9	11.10%		
Friends	1	0.30%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	0	0.00%		
Help homeless	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Homeless for 3 years	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Junkies	1	0.30%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	0	0.00%		
Lived on streets for 5 years	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	5.78	0.216
Needle exchange program	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Out of the Cold	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Volunteer 15 years in drop-ins	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Was part of this	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Not stated	13	3.60%	3	4.10%	3	4.30%	1	1.40%	1	1.50%	5	6.20%		

Table 7
Service Information and Demographic By Intensity of CBO Service Use

	Service Users of Community Based Organization												Test Statistics	
	Total		Non user		Low Intensity Users (1-10 times)		Medium Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times & Up)			
	N	%	N	%	N	%	N	%	N	%	N	%	Chi-square	p-values
No	340	93.90%	67	93.10%	67	95.70%	71	97.30%	63	95.50%	72	88.90%		
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Youth (under 20 years old)														
Yes	6	1.70%	0	0.00%	1	1.40%	4	5.50%	0	0.00%	1	1.20%		
No	356	98.30%	72	100.00%	69	98.60%	69	94.50%	66	100.00%	80	98.80%	8.979	0.062
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Youth (21-24 years old)														
Yes	12	3.30%	2	2.80%	1	1.40%	4	5.50%	1	1.50%	4	4.90%		
No	350	96.70%	70	97.20%	69	98.60%	69	94.50%	65	98.50%	77	95.10%	3.242	0.518
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Youth (25-29 years old)														
Yes	29	8.00%	4	5.60%	4	5.70%	13	17.80%	5	7.60%	3	3.70%		
No	333	92.00%	68	94.40%	66	94.30%	60	82.20%	61	92.40%	78	96.30%	12.655	0.013
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Youth (30 years and older)														
Yes	61	16.90%	11	15.30%	14	20.00%	12	16.40%	15	22.70%	9	11.10%		
No	301	83.10%	61	84.70%	56	80.00%	61	83.60%	51	77.30%	72	88.90%	4.163	0.384
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Mental Health Group														
Yes	54	14.90%	7	9.70%	10	14.30%	11	15.10%	7	10.60%	19	23.50%		
No	308	85.10%	65	90.30%	60	85.70%	62	84.90%	59	89.40%	62	76.50%	7.175	0.127
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Physical Health i.e. disability etc														
Yes	76	21.00%	6	8.30%	14	20.00%	14	19.20%	17	25.80%	25	30.90%		
No	286	79.00%	66	91.70%	56	80.00%	59	80.80%	49	74.20%	56	69.10%	12.805	0.012
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Other														
Yes	129	35.60%	16	22.20%	28	40.00%	32	43.80%	21	31.80%	32	39.50%		
No	233	64.40%	56	77.80%	42	60.00%	41	56.20%	45	68.20%	49	60.50%	9.318	0.054
Total	362	100.00%	72	100.00%	70	100.00%	73	100.00%	66	100.00%	81	100.00%		
Q10b. With which of the above communities do you identify yourself with the most?														
Not Stated	61	16.80%	18	24.70%	9	12.90%	7	9.60%	14	20.90%	13	16.00%		
None	12	3.30%	5	6.80%	4	5.70%	0	0.00%	2	3.00%	1	1.20%		
MSM	21	5.80%	5	6.80%	3	4.30%	7	9.60%	3	4.50%	3	3.70%		
IDU	7	1.90%	2	2.70%	0	0.00%	1	1.40%	1	1.50%	3	3.70%		
HIV Endemic Countries	2	0.50%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	1	1.20%		
Heterosexual	23	6.30%	0	0.00%	8	11.40%	5	6.80%	4	6.00%	6	7.40%		
Bisexual	9	2.50%	2	2.70%	1	1.40%	3	4.10%	1	1.50%	2	2.50%		
HIV-Transfusion	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Male	47	12.90%	9	12.30%	10	14.30%	8	11.00%	8	11.90%	12	14.80%		
Female	21	5.80%	2	2.70%	5	7.10%	3	4.10%	6	9.00%	5	6.20%		
Transgender	3	0.80%	1	1.40%	2	2.90%	0	0.00%	0	0.00%	0	0.00%		
Aboriginal	8	2.20%	2	2.70%	1	1.40%	4	5.50%	1	1.50%	0	0.00%		
Ethno-specific	10	2.70%	1	1.40%	3	4.30%	3	4.10%	2	3.00%	1	1.20%		
Street Involved	8	2.20%	3	4.10%	0	0.00%	0	0.00%	1	1.50%	4	4.90%		
Youth	5	1.40%	1	1.40%	0	0.00%	1	1.40%	1	1.50%	2	2.50%		
Youth (21-24 years old)	3	0.80%	1	1.40%	0	0.00%	1	1.40%	0	0.00%	1	1.20%	133.192	0.552
Youth (25-29 years old)	2	0.50%	1	1.40%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
Youth (30 years and older)	6	1.60%	1	1.40%	2	2.90%	1	1.40%	1	1.50%	1	1.20%		
Mental Health Related	8	2.20%	1	1.40%	2	2.90%	2	2.70%	0	0.00%	3	3.70%		

Table 7
Service Information and Demographic By Intensity of CBO Service Use

	Service Users of Community Based Organization												Test Statistics	
	Total		Non user		Low Intensity Users (1-10 times)		Medium Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times & Up)			
	N	%	N	%	N	%	N	%	N	%	N	%	Chi-square	p-values
Physical Health Related	5	1.40%	2	2.70%	0	0.00%	0	0.00%	2	3.00%	1	1.20%		
Gay	84	23.10%	14	19.20%	15	21.40%	22	30.10%	16	23.90%	17	21.00%		
Hep C, HIV female	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Drag Queen	2	0.50%	0	0.00%	1	1.40%	0	0.00%	1	1.50%	0	0.00%		
HIV	3	0.80%	1	1.40%	1	1.40%	0	0.00%	1	1.50%	0	0.00%		
Poor	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Village	1	0.30%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	1.20%		
Hood	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
Human being	2	0.50%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	2.50%		
Homosexual	1	0.30%	1	1.40%	0	0.00%	0	0.00%	0	0.00%	0	0.00%		
Self	1	0.30%	0	0.00%	1	1.40%	0	0.00%	0	0.00%	0	0.00%		
Mother	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
Christian	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
Rural	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
ASO Hamilton Aids Network	1	0.30%	0	0.00%	0	0.00%	1	1.40%	0	0.00%	0	0.00%		
ASO PWA	1	0.30%	0	0.00%	0	0.00%	0	0.00%	1	1.50%	0	0.00%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		
KRS Measures														
In general, how would you rate your overall health?														
Not Stated	4	1.10%	0	0.00%	0	0.00%	1	1.40%	3	4.50%	0	0.00%		
Excellent	48	13.20%	14	19.20%	9	12.90%	8	11.00%	7	10.40%	10	12.30%		
Good	153	42.00%	31	42.50%	28	40.00%	37	50.70%	23	34.30%	34	42.00%		
Fair	132	36.30%	23	31.50%	31	44.30%	21	28.80%	28	41.80%	29	35.80%		
Very Bad	14	3.80%	2	2.70%	1	1.40%	5	6.80%	3	4.50%	3	3.70%	28.758	0.229
Terrible	8	2.20%	1	1.40%	1	1.40%	1	1.40%	1	1.50%	4	4.90%		
Don't know	5	1.40%	2	2.70%	0	0.00%	0	0.00%	2	3.00%	1	1.20%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		
Current Stage of Illness (KRS scale)														
20 Very sick; hospitalization necessary; active, supportive tre	2	0.60%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	2	2.50%		
30 Severely disabled; hospitalization indicated although death not imminent	3	0.90%	2	3.00%	0	0.00%	0	0.00%	0	0.00%	1	1.30%		
40 Disabled; requires special care and assistance	8	2.30%	1	1.50%	1	1.50%	0	0.00%	2	3.20%	4	5.10%		
50 Requires considerable assistance and frequent medical care	22	6.30%	5	7.50%	0	0.00%	4	5.60%	6	9.70%	7	8.90%		
60 Requires occasional assistance but is able to care for most	30	8.60%	3	4.50%	10	14.90%	3	4.20%	6	9.70%	8	10.10%	48.012	0.034
70 Cares for self; unable to carry on normal activity or to do	37	10.70%	3	4.50%	8	11.90%	13	18.10%	8	12.90%	5	6.30%		
80 Normal activity with effort; some signs or symptoms of disease	93	26.80%	12	17.90%	18	26.90%	23	31.90%	16	25.80%	24	30.40%		
90 Able to carry on normal activity; minor signs or symptoms	103	29.70%	26	38.80%	21	31.30%	19	26.40%	17	27.40%	20	25.30%		
100 Normal; no complaints;	49	14.10%	15	22.40%	9	13.40%	10	13.90%	7	11.30%	8	10.10%		

Table 7
Service Information and Demographic By Intensity of CBO Service Use

	Service Users of Community Based Organization												Test Statistics	
	Total		Non user		Low Intensity Users (1-10 times)		Medium Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times & Up)			
	N	%	N	%	N	%	N	%	N	%	N	%	Chi-square	p-values
no evidence of disease (exhibits norm)														
Total	347	100.00%	67	100.00%	67	100.00%	72	100.00%	62	100.00%	79	100.00%		
Depression (CES-D)														
Depressed (> 20)	204	57.50%	31	44.90%	40	58.80%	42	57.50%	42	63.60%	49	62.00%		
Not depressed (<=20)	151	42.50%	38	55.10%	28	41.20%	31	42.50%	24	36.40%	30	38.00%	6.152	0.188
Total	355	100.00%	69	100.00%	68	100.00%	73	100.00%	66	100.00%	79	100.00%		
Coping Measures related PHA Support programs														
12hh. Seek PHA support through PHA Caucus														
No	197	54.10%	46	63.00%	41	58.60%	44	60.30%	33	49.30%	33	40.70%		
Yes, once or twice	51	14.00%	7	9.60%	5	7.10%	11	15.10%	14	20.90%	14	17.30%		
Yes, sometimes	47	12.90%	6	8.20%	10	14.30%	8	11.00%	11	16.40%	12	14.80%		
Yes, fairly often	19	5.20%	6	8.20%	4	5.70%	1	1.40%	4	6.00%	4	4.90%	23.669	0.096
N/A	50	13.70%	8	11.00%	10	14.30%	9	12.30%	5	7.50%	18	22.20%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		
12ii. Seek PHA support through OAN														
No	200	54.90%	48	65.80%	43	61.40%	42	57.50%	34	50.70%	33	40.70%		
Yes, once or twice	45	12.40%	6	8.20%	5	7.10%	9	12.30%	12	17.90%	13	16.00%		
Yes, sometimes	57	15.70%	11	15.10%	11	15.70%	12	16.40%	11	16.40%	12	14.80%	20.158	0.213
Yes, fairly often	13	3.60%	2	2.70%	2	2.90%	1	1.40%	3	4.50%	5	6.20%		
N/A	49	13.50%	6	8.20%	9	12.90%	9	12.30%	7	10.40%	18	22.20%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		
12jj. Seek PHA support through friends, family etc														
No	102	28.00%	33	45.20%	23	32.90%	12	16.40%	16	23.90%	18	22.20%		
Yes, once or twice	70	19.20%	14	19.20%	9	12.90%	17	23.30%	17	25.40%	13	16.00%		
Yes, sometimes	89	24.50%	11	15.10%	17	24.30%	23	31.50%	21	31.30%	17	21.00%	33.65	0.006
Yes, fairly often	58	15.90%	11	15.10%	13	18.60%	11	15.10%	7	10.40%	16	19.80%		
N/A	45	12.40%	4	5.50%	8	11.40%	10	13.70%	6	9.00%	17	21.00%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		
12kk. Draw on skills acquired at PHA Caucus meetings														
No	202	55.50%	48	65.80%	41	58.60%	38	52.10%	38	56.70%	37	45.70%		
Yes, once or twice	44	12.10%	6	8.20%	7	10.00%	9	12.30%	10	14.90%	12	14.80%		
Yes, sometimes	51	14.00%	11	15.10%	8	11.40%	15	20.50%	8	11.90%	9	11.10%	24.741	0.075
Yes, fairly often	17	4.70%	3	4.10%	4	5.70%	1	1.40%	6	9.00%	3	3.70%		
N/A	50	13.70%	5	6.80%	10	14.30%	10	13.70%	5	7.50%	20	24.70%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		
12ll. Draw on skills acquired at OAN workshops														
No	192	52.70%	43	58.90%	40	57.10%	40	54.80%	33	49.30%	36	44.40%		
Yes, once or twice	51	14.00%	11	15.10%	8	11.40%	9	12.30%	11	16.40%	12	14.80%		
Yes, sometimes	59	16.20%	10	13.70%	10	14.30%	14	19.20%	13	19.40%	12	14.80%	13.836	0.611
Yes, fairly often	17	4.70%	4	5.50%	4	5.70%	1	1.40%	4	6.00%	4	4.90%		
N/A	45	12.40%	5	6.80%	8	11.40%	9	12.30%	6	9.00%	17	21.00%		
Total	364	100.00%	73	100.00%	70	100.00%	73	100.00%	67	100.00%	81	100.00%		

Table 8
Comparison of Demographic, Current Stage of Illness, Depression, Coping Measures and Health Related Quality of Life Dimensions Among Different Types of Service Users (N=363)

	Service Users of Community Based Organization																			Test Statistics	
	Group Total			Non user			Low Intensity Users (1-10 times)			Medium Intensity Users (11-29 times)			Moderate Intensity Users (30-51 times)			High Intensity Users (52 times & Up)					
	(N=363)			(N=72)			(N=70)			(N=73)			(N=67)			(N=81)			F-test	p-values	
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.			
Age	355	41.8	8.5	71	41.6	8.1	69	42.1	8.3	72	41.8	8.8	64	42.2	9.2	79	41.5	8.3	0.09	0.985	
9. What is the length of time that you have been diagnosed with HIV/AIDS (yrs)?	353	8.6	5	69	8.4	4.9	68	8.6	4.3	72	9	5.1	65	7.9	5.1	79	9.1	5.5	0.66	0.623	
Current Stage of Illness																					
Current Stage of illness (KRS scale)	347	79.4	16.4	67	82.7	17.7	67	81	13.5	72	81.1	13	62	77.6	16.2	79	75.1	19.4	2.67	0.032	
CD4 plus lymphocyte count	228	576	704	39	533.9	422.1	47	473.1	286.6	56	528	456	36	541	853	50	786	1125	1.5	0.202	
CD4 %	168	280	263	36	262.1	264.6	25	232.8	244.1	27	283	267	38	264	238	42	336	294	0.75	0.558	
Depression (CES-D)																					
Depression Score (CES-D)	355	23.6	12.9	69	20.8	14.1	68	23.4	13.2	73	23.1	11.9	66	25.2	12	79	25.3	12.9	1.44	0.221	
21. How have you been feeling at the present time ?(1 (poor) - 5 (excellent))	345	2.9	1	68	3.1	1.2	66	2.8	1	72	2.9	0.9	61	2.9	0.9	78	2.8	1	1.24	0.295	
Coping Measures																					
Cognitive (0-33)	354	20.2	5.9	69	19.6	7.1	68	20.00	5.20	73	19.9	5.3	66	20.3	6.7	78	20.9	5.4	0.51	0.729	
Active behavioural (0-39)	354	22.6	6.4	70	21.3	6.7	68	22.30	6.60	73	22.1	6.2	65	22.8	6.5	78	24.5	5.9	2.73	0.029	
Avoidance (0-24)	340	7.9	4.1	68	7.3	4.8	66	7.20	3.80	67	7.4	3.2	64	8.7	4.4	75	8.7	4.2	2.3	0.059	
Logical analysis (0-12)	355	8	3.2	69	8.2	5.1	68	8.00	2.70	73	8.1	2.8	66	7.7	2.6	79	8.2	2.4	0.34	0.848	
Information seeking (0-21)	356	11.7	4.2	70	10.4	4.3	68	11.50	4.40	73	11.3	3.8	66	12.2	4.2	79	12.8	3.8	3.68	0.006	
Problem solving (0-15)	353	9.3	2.9	69	9.0	3.1	68	9.50	2.70	73	9.2	2.6	65	9.3	3.1	78	9.5	2.9	0.43	0.788	
Affective regulation (0-18)	354	10.3	3.6	69	9.7	3.3	69	9.90	3.30	73	10.1	3	65	10.7	4.9	78	10.8	3.5	1.28	0.276	
Emotional discharge(0-18)	341	6.4	3.6	68	6.0	4.2	67	5.70	3.10	67	5.9	2.9	64	6.7	3.6	75	7.3	3.6	2.62	0.035	
In a stressful event, would you																					
12hh. Seek PHA support through PHA Caucus	314	0.6	0.9	65	0.6	1.0	60	0.60	1.00	64	0.5	0.8	62	0.8	1.0	63	0.8	1	1.36	0.249	
12ii. Seek PHA support through OAN	315	0.6	0.9	67	0.5	0.9	61	0.50	0.90	64	0.6	0.9	60	0.7	0.9	63	0.8	1	1.38	0.242	
12jj. Seek PHA support through	319	1.3	1.1	69	1.0	1.1	62	1.30	1.20	63	1.5	1	61	1.3	1.0	64	1.5	1.2	2.37	0.053	

Table 8
Comparison of Demographic, Current Stage of Illness, Depression, Coping Measures and Health Related Quality of Life Dimensions Among Different Types of Service Users (N=363)

	Service Users of Community Based Organization																			Test Statistics	
	Group Total			Non user			Low Intensity Users (1-10 times)			Medium Intensity Users (11-29 times)			Moderate Intensity Users (30-51 times)			High Intensity Users (52 times & Up)					
	(N=363)			(N=72)			(N=70)			(N=73)			(N=67)			(N=81)			F-test	p-values	
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.			
friends, family etc																					
12kk. Draw on skills acquired at PHA Caucus meetings	314	0.6	0.9	68	0.5	0.9	60	0.60	1.00	63	0.7	0.9	62	0.7	1.0	61	0.6	0.9	0.31	0.87	
12ll. Draw on skills acquired at OAN workshops	319	0.7	1	68	0.6	0.9	62	0.60	1.00	64	0.6	0.9	61	0.8	1.0	64	0.8	1	0.45	0.774	
Health Related Quality of Life Measures (Raw Scores)																					
General Health Perceptions (5-25)	359	13.9	5.1	71	15.00	5.00	70	13.70	5.30	73	13.8	5.5	66	13.5	5.1	79	13.6	4.6	1.1	0.357	
Physical Function (6-18)	360	14.4	3.1	72	14.40	3.30	70	14.90	2.90	73	14.7	2.8	65	13.7	3.0	80	14	3.5	1.52	0.196	
Role Function (2-4)	362	2.8	0.9	72	3.00	0.90	70	2.80	0.90	73	2.8	0.9	66	2.7	0.8	81	2.6	0.8	2.53	0.041	
Social Function (1-6)	359	4.3	1.5	72	4.50	1.50	69	4.40	1.40	73	4.4	1.2	64	4.2	1.5	81	4	1.6	1.48	0.208	
Cognitive Function (4-24)	362	16.9	5.3	72	17.30	5.90	70	17.00	5.10	73	17.2	4.6	67	17.3	5.2	80	15.9	5.6	0.91	0.458	
Pain (2-11)	363	7.2	2.3	72	7.80	2.50	70	7.00	2.30	73	7.3	2.1	67	7.3	2.3	81	6.6	2.4	2.59	0.037	
Mental Function (5-30)	362	19.8	5.3	72	20.80	5.90	70	19.40	6.00	73	20.2	4.7	66	19.7	4.8	81	19.3	5.1	1.01	0.403	
Energy/Fatigue (4-24)	362	13.3	4.2	72	14.20	4.20	70	13.30	4.60	73	13.1	4.5	66	13.3	3.7	81	12.8	4	1.12	0.346	
Health Distress (4-24)	363	16.2	5.3	72	16.40	6.10	70	16.10	5.70	73	16.9	4.5	67	16.0	5.3	81	15.7	4.9	0.52	0.72	
Quality of Life (1-5)	360	3.3	0.9	70	3.40	1.00	70	3.30	0.90	73	3.4	0.9	67	3.3	0.9	80	3.3	1	0.54	0.703	
Health Transition (1-6)	360	3.3	1	70	3.20	1.00	70	3.00	0.80	73	3.3	1	67	3.5	1.0	80	3.5	1.1	3.48	0.008	
Total Physical Health Summary Raw Scores	362	55.8	13.5	72	58.80	13.10	70	56.10	13.70	73	56.1	13.6	66	54.9	13.3	81	53.4	13.4	1.65	0.162	
Total Mental Health Summary Raw Scores	363	87.9	21.6	72	91.80	23.30	70	87.30	23.50	73	89	19.6	67	87.5	20.7	81	84.4	20.7	1.17	0.323	
Health Related Quality of Life Measures (Index Scores)																					
Overall Health Perception index score	359	44.6	25.6	71	50.20	25.10	70	43.60	26.40	73	44.1	27.7	66	42.3	25.7	79	42.9	22.9	1.1	0.357	
Physical Function index score	360	69.6	26.2	72	70.10	27.80	70	73.90	24.10	73	72.6	23.3	65	64.5	25.0	80	67	29.2	1.52	0.196	
Role Function index score	362	38.3	43.6	72	50.00	46.00	70	38.60	45.20	73	40.4	44.6	66	34.8	40.2	81	28.4	40.3	2.53	0.041	
Social Function index score	359	65.7	29	72	69.40	29.60	69	67.20	28.30	73	68.5	24.9	64	64.4	29.9	81	59.5	31.5	1.48	0.208	
Cognitive Function index score	362	64.6	26.4	72	66.50	29.30	70	65.20	25.40	73	65.9	22.9	67	66.4	26.2	80	59.7	27.8	0.91	0.458	
Pain function index score	363	57.7	25.9	72	64.40	27.30	70	55.70	25.20	73	58.9	23.3	67	58.9	26.1	81	51.4	26.4	2.59	0.037	

Table 8
Comparison of Demographic, Current Stage of Illness, Depression, Coping Measures and Health Related Quality of Life Dimensions Among Different Types of Service Users (N=363)

	Service Users of Community Based Organization																				Test Statistics	
	Group Total			Non user			Low Intensity Users (1-10 times)			Medium Intensity Users (11-29 times)			Moderate Intensity Users (30-51 times)			High Intensity Users (52 times & Up)						
	(N=363)			(N=72)			(N=70)			(N=73)			(N=67)			(N=81)						
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	F-test	p-values		
Mental Function index score	362	59.4	21.4	72	63.10	23.60	70	57.40	24.10	73	60.8	18.9	66	58.9	19.2	81	57	20.6	1.01	0.403		
Energy/Fatigue index score	362	46.6	21.1	72	51.00	21.10	70	46.30	22.90	73	45.3	22.3	66	46.7	18.4	81	44.2	20.1	1.12	0.346		
Health Distress index score	363	61.1	26.6	72	62.10	30.60	70	60.50	28.60	73	64.4	22.4	67	59.9	26.5	81	58.7	24.7	0.52	0.72		
Quality of Life index score	360	58.5	23.3	70	60.70	25.40	70	56.80	23.70	73	60.3	21.6	67	58.6	21.6	80	56.3	24	0.54	0.703		
Health Transition index score	360	57.6	24.5	70	55.70	24.10	70	49.60	21.10	73	57.2	24.5	67	62.3	24.0	80	62.5	26.4	3.48	0.008		
Physical Health Summary index score	362	52.7	19.8	72	57.1	19.3	70	53.1	20.2	73	53.1	20.0	66	51.3	19.5	81	49.1	19.7	1.65	0.162		
Mental Health Summary index score	363	56.1	18.9	72	59.4	20.4	70	55.5	20.6	73	57.0	17.2	67	55.7	18.2	81	53.0	18.1	1.17	0.323		
Social Support Measures																						
Confident Support (5-30)	361	15.5	7	71	15.00	7.20	70	15.50	7.50	73	15.1	7.1	66	16.1	6.6	81	15.8	6.5	0.28	0.892		
Affective Support (3-18)	360	8.9	4.3	71	8.50	4.40	70	8.10	4.50	73	9.0	4.2	65	9.4	4.3	81	9.4	4.3	1.25	0.288		
Client Satisfaction Scores																						
Client satisfaction score for PHA Program (8-32)	172	24.4	4.9	31	23.4	6.1	29	24.20	4.90	34	24.7	5.7	40	24.6	4.3	38	24.9	3.9	0.49	0.744		
Client satisfaction score for PHA Caucus (8-32)	152	22.9	5.4	29	21.5	6.5	25	22.40	5.00	31	22.9	6.1	33	23.1	4.1	34	24.4	4.9	1.23	0.302		
Client satisfaction score for Other OAN Services (8-32)	166	24.2	5	32	23	6.6	29	23.80	4.00	33	24.5	4.7	35	24.2	4.4	37	25.2	5.1	0.91	0.458		

Table 9
Utilization by Intensity of Use
Annual Mean Expenditure on Health and Social Service Utilization By Service Users Group

	Group Total			User type												Test Statistics				
				Non CBO or OAN users			1-10 times (Low)			11-29 times (Medium users)			30-51 times (Moderate User)					52 & Up (high users)		
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW Test	p-values
Direct Cost																				
Family physician (primary care)	361	300.2	372.4	71	218.5	289.4	70	250.6	354.6	72	315.6	391.2	67	349.5	324.3	81	360.2	453.8	10.38	0.03
Infectious disease/HIV specialist	361	424.2	528.8	71	447.5	561.4	70	524.4	608.0	72	380.4	455.2	67	417.5	510.3	81	361.8	499.9	2.97	0.56
Physician Specialist	361	590.2	992.9	71	475.4	814.7	70	515.8	979.9	72	660.4	987.7	67	608.6	1079.1	81	677.5	1082.7	2.94	0.57
Emergency department physician and service	361	598.7	2846.4	71	330.9	1501.3	70	469.8	1302.1	72	228.4	700.8	67	771.4	2100.6	81	1131.1	5332.4	5.14	0.27
Psychiatrist (mental health specialist)	361	109.7	349.3	71	84.9	321.7	70	68.2	310.2	72	127.2	398.9	67	136.5	385.9	81	129.5	328.8	3.69	0.45
Optometrist	361	33.7	154.9	71	33.4	143.4	70	24.0	143.3	72	60.4	183.4	67	25.1	123.1	81	25.6	170.6	6.82	0.15
Chiropractor	361	35.7	207.9	71	13.9	66.8	70	31.4	142.0	72	43.1	234.4	67	23.6	99.6	81	61.8	339.0	0.33	0.99
Naturopath / homeopath	361	68.2	352.0	71	0.0	0.0	70	79.0	505.7	72	58.2	271.7	67	112.2	387.8	81	91.2	375.4	7.54	0.11
Nutritionist	361	32.9	166.9	71	25.7	123.4	70	9.0	74.9	72	29.2	143.8	67	59.0	192.4	81	41.7	238.9	4.78	0.31
Nurse Practitioner	361	18.1	87.7	71	25.4	71.7	70	28.9	120.7	72	9.4	59.0	67	6.7	38.6	81	19.4	113.6	7.40	0.12
Visiting nurse (Home Care/PH/VON/SEN)	361	52.5	348.8	71	27.4	113.1	70	20.3	96.7	72	28.5	118.2	67	36.9	131.0	81	136.4	701.6	0.72	0.95
Physiotherapist	361	49.9	451.4	71	0.0	0.0	70	24.5	143.9	72	0.0	0.0	67	89.6	451.1	81	127.0	847.9	7.68	0.10
Occupational therapist	361	20.4	240.5	71	14.8	124.7	70	0.0	0.0	72	0.0	0.0	67	31.4	180.1	81	51.9	466.9	3.79	0.44
Psychologist/Psychotherapy	361	131.6	612.1	71	83.7	401.2	70	169.7	875.3	72	110.0	456.7	67	147.8	524.3	81	146.7	684.3	0.89	0.93
Social worker	361	355.2	1000.0	71	172.9	511.9	70	155.9	494.9	72	435.7	1044.7	67	366.4	772.4	81	606.2	1570.0	7.13	0.13
Family Counselor/Counselor	361	61.7	402.6	71	0.0	0.0	70	89.5	387.7	72	68.5	340.7	67	61.9	463.3	81	85.4	561.3	4.23	0.38
Addictions Counselor	361	79.8	538.2	71	0.0	0.0	70	17.1	143.4	72	16.7	141.4	67	17.9	146.6	81	311.1	1086.3	17.05	0.00
Needle exchange program	361	2.0	17.6	71	1.0	8.5	70	0.0	0.0	72	0.0	0.0	67	1.1	8.8	81	7.1	35.1	10.62	0.03
Support groups / peer support	361	64.9	205.6	71	31.4	104.2	70	58.5	216.0	72	36.2	141.8	67	94.4	236.6	81	101.0	269.6	8.08	0.09
Health education / prevention talks	361	18.2	114.0	71	6.2	52.0	70	6.3	52.4	72	12.2	72.5	67	32.7	138.8	81	32.4	180.3	3.36	0.50
Recreation activities	361	5.8	36.8	71	1.3	10.8	70	1.3	10.8	72	10.1	49.4	67	6.8	36.4	81	9.0	50.9	3.06	0.55
Financial assistance program	361	19.9	92.1	71	11.3	66.7	70	11.4	67.1	72	27.8	102.4	67	23.9	95.5	81	24.7	115.7	2.14	0.71
Advocacy services	361	69.8	478.7	71	25.4	213.6	70	0.0	0.0	72	75.0	362.2	67	80.6	375.1	81	155.6	863.1	3.98	0.41
Probationary officer	361	6.6	88.9	71	0.0	0.0	70	0.0	0.0	72	16.6	141.0	67	0.0	0.0	81	14.8	132.9	2.74	0.60
In Jail/penitentiary	361	108.9	1660.4	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	485.4	3495.9	6.93	0.14
Other Health or Social Service	361	9.1	73.0	71	0.0	0.0	70	19.6	99.2	72	8.3	70.6	67	10.8	88.3	81	7.4	66.7	4.19	0.38
Meal /Soup Kitchen	361	0.6	10.7	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	2.5	22.7	3.46	0.48
Food Bank (ASO, or community-based)	361	153.3	427.7	71	27.7	141.3	70	140.7	366.7	72	170.7	370.8	67	202.6	452.8	81	218.1	614.8	11.29	0.02
Private personal nurse (paid, not home care)	361	0.0	0.0	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	0.0	0.0	0.00	1.00
General homemakers e.g. Visiting Homemaker Assoc.	361	85.2	652.4	71	25.0	210.3	70	19.0	111.6	72	95.4	543.7	67	13.2	108.3	81	245.5	1247.5	4.98	0.29

Table 9
Utilization by Intensity of Use
Annual Mean Expenditure on Health and Social Service Utilization By Service Users Group

	Group Total			User type															Test Statistics	
				Non CBO or OAN users			1-10 times (Low)			11-29 times (Medium users)			30-51 times (Moderate User)			52 & Up (high users)				
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW Test	p-values
Grocery Delivery	361	0.0	0.0	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	0.0	0.0	0.00	1.00
House Cleaning only	361	63.1	535.4	71	27.9	235.0	70	39.9	244.0	72	110.0	933.4	67	59.1	483.8	81	75.8	469.2	1.50	0.83
Child or Adult care	361	3.3	63.2	71	0.0	0.0	70	17.1	143.4	72	0.0	0.0	67	0.0	0.0	81	0.0	0.0	4.16	0.39
Employment retraining program	361	21.9	211.7	71	0.0	0.0	70	0.0	0.0	72	44.0	373.4	67	35.5	215.1	81	29.3	195.8	3.90	0.42
Financial Services (advice/ assistance with budgeting, banking, paying bills or taxes)	361	2.2	41.1	71	0.0	0.0	70	0.0	0.0	72	10.8	91.9	67	0.0	0.0	81	0.0	0.0	4.01	0.40
Other community paid support services	361	37.7	320.2	71	0.0	0.0	70	3.3	28.0	72	61.8	380.8	67	77.3	505.5	81	46.4	342.1	2.93	0.57
Use of unpaid/voluntary community support services	361	1006.1	3992.0	71	631.6	4738.6	70	680.1	1930.2	72	1302.8	5925.7	67	951.4	2946.8	81	1397.6	3173.1	17.72	0.00
Outpatient Laboratory test	361	1071.7	1632.7	71	1044.1	1494.9	70	997.2	1401.8	72	907.4	1146.8	67	1425.8	2307.7	81	1013.3	1626.7	1.03	0.91
Medical Procedures	359	112.6	522.4	71	60.4	209.4	70	107.6	460.9	72	91.1	232.3	66	85.6	241.5	80	204.7	950.6	1.06	0.90
Blood works/tests	361	493.1	557.2	71	513.1	599.7	70	478.7	541.7	72	488.9	529.8	67	550.4	550.5	81	444.1	569.5	2.49	0.65
Outpatient Diagnostic tests	361	466.7	1245.2	71	470.6	1231.2	70	410.8	1054.9	72	327.4	743.8	67	791.0	1895.9	81	367.1	1056.8	1.81	0.77
911- Services	361	16.3	110.2	71	7.9	46.6	70	12.0	57.1	72	0.0	0.0	67	20.9	101.2	81	38.0	201.6	4.64	0.33
Ambulance Services	361	195.5	1372.0	71	207.0	1744.6	70	84.0	493.3	72	40.8	346.5	67	219.4	1062.9	81	399.3	2117.7	4.02	0.40
Medication cost	353	9444.4	9740.1	70	8893.7	9958.1	69	9293.4	7415.7	70	9987.1	9013.2	65	8612.9	7572.4	79	10267.7	13104.6	1.41	0.84
Complementary Therapies used	359	277.0	912.7	71	273.5	849.7	70	208.0	474.5	72	204.6	429.3	66	390.2	1569.1	80	312.2	852.0	2.37	0.67
Supplies, aids or special devices purchased/leased	361	227.9	2060.7	71	140.5	768.3	70	0.0	0.0	72	266.7	2262.7	67	111.9	916.3	81	562.9	3630.0	4.07	0.40
Parking cost	361	3.2	36.7	71	0.9	7.1	70	0.0	0.0	72	5.5	36.1	67	9.2	75.7	81	1.1	10.0	2.03	0.73
Mileage cost	361	7.0	66.7	71	10.1	85.5	70	7.7	64.5	72	7.5	63.6	67	0.0	0.0	81	8.9	80.0	0.93	0.92
Other transportation (cab, bus, train, plane) expenses	361	51.1	258.0	71	75.0	290.0	70	48.8	307.1	72	53.8	227.7	67	49.3	302.0	81	31.5	149.7	0.64	0.96
Direct cost without hospital cost	361	16721.5	18337.0	71	13270.3	12801.5	70	13993.5	8997.3	72	16749.0	16883.8	67	16502.5	16239.2	81	22261.0	27949.0	4.67	0.32
Hospital stay cost	361	2641.3	19374.9	71	689.9	3443.2	70	3638.6	18130.3	72	0.0	0.0	67	3996.5	18259.2	81	4716.7	33224.5	5.18	0.27
Direct cost including hospital cost	361	19362.8	28565.7	71	13960.2	12971.9	70	17632.1	20113.6	72	16749.0	16883.8	67	20499.0	29406.0	81	26977.7	45988.8	3.80	0.43
Out of Pocket Cost																				
Meal Services	361	9.0	129.6	71	0.0	0.0	70	34.3	286.9	72	6.9	58.2	67	0.0	0.0	81	4.4	29.7	3.00	0.56
Private personal nurse (paid, not home care)	361	57.9	590.4	71	0.0	0.0	70	91.9	768.8	72	89.3	758.0	67	120.0	807.1	81	0.0	0.0	3.95	0.41
General homemakers e.g. Visiting Homemaker Assoc.	361	0.0	0.0	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	0.0	0.0	0.00	1.00
Grocery Delivery	361	1.0	11.2	71	0.0	0.0	70	0.9	7.2	72	0.0	0.0	67	2.2	17.6	81	1.8	16.0	2.01	0.73

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	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW Test	p-values
House Cleaning only	361	30.7	217.6	71	27.9	235.0	70	65.1	320.9	72	3.3	28.3	67	21.5	175.9	81	35.3	219.0	2.39	0.66
Child or Adult care	361	26.1	291.4	71	0.0	0.0	70	120.0	645.7	72	14.2	120.2	67	0.0	0.0	81	0.0	0.0	8.98	0.06
Employment retraining program	361	0.0	0.0	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	0.0	0.0	0.00	1.00
Financial Services (advice/ assistance with budgeting, banking, paying bills or taxes)	361	2.0	37.9	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	8.9	80.0	3.46	0.48
Other health and social services	361	10.3	141.2	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	53.7	325.8	81	1.5	13.3	5.73	0.22
Medications	353	571.0	2266.6	70	277.8	895.3	69	645.4	1514.9	70	598.7	1518.7	65	820.3	4513.0	79	536.1	1259.8	6.40	0.17
Complementary Therapies used	359	381.5	1028.0	71	191.7	501.4	70	385.4	846.2	72	451.9	1077.8	66	584.4	1543.2	80	315.6	928.0	5.00	0.29
Supplies, aids or special devices purchased/leased	361	105.9	1224.2	71	106.5	588.1	70	12.0	76.9	72	30.5	258.8	67	403.3	2758.0	81	7.4	66.7	6.22	0.18
Parking cost	361	62.3	481.8	71	30.1	79.3	70	138.3	1003.4	72	92.4	376.4	67	48.7	201.9	81	9.1	37.9	5.01	0.29
Mileage cost	361	158.8	1580.7	71	529.4	3440.7	70	154.3	857.7	72	93.3	286.7	67	5.4	28.5	81	22.9	115.9	9.70	0.05
Other transportation (cab, bus, train, plane) expenses	361	213.3	613.1	71	161.5	1010.0	70	238.5	567.5	72	189.6	401.2	67	259.6	502.5	81	219.7	405.6	15.30	0.00
Out of pocket cost	361	1614.9	3747.5	71	1320.9	3807.3	70	1876.8	2666.7	72	1553.5	2662.1	67	2285.9	6381.8	81	1145.6	1936.6	9.21	0.06
Grand Total Cost																				
Excluding hospital cost	361	18336.4	19102.6	71	14591.2	14143.4	70	15870.3	9443.92	72	18302.55	17550.12	67	18788.45	18509.17	81	23406.62	28109.94	5.03	0.28
Including hospital cost	361	20977.7	28989.0	71	15281.1	14233.1	70	19508.89	20179.36	72	18302.55	17550.12	67	22784.91	30613.73	81	28123.31	45989.62	4.52	0.34
Cash Transfer Cost																				
Workplace Safety and Insurance Information Board (WSIB)	361	39.1	477.1	71	51.8	436.7	70	0.0	0.0	72	0.0	0.0	67	155.5	1010.1	81	0.0	0.0	5.91	0.21
Ontario Disability Support Program (ODSP)	361	3675.1	4935.7	71	2556.2	4282.8	70	4005.0	5512.0	72	3732.9	4862.7	67	2866.0	4361.0	81	4988.5	5214.5	12.07	0.02
Canada Pensions	361	2631.6	4300.6	71	2651.5	4251.9	70	2377.5	4334.3	72	2844.9	4297.5	67	2563.8	4059.3	81	2700.3	4595.1	0.47	0.98
Company Pensions	361	348.6	2353.5	69	241.5	1161.5	68	118.2	975.0	71	497.2	2361.6	67	428.7	1721.0	80	438.0	3917.6	4.05	0.40
Old Age Security	361	47.6	522.4	71	0.0	0.0	70	0.0	0.0	72	90.4	766.9	67	54.7	329.4	81	86.7	780.5	3.75	0.44
GAINS	361	17.5	333.3	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	78.2	703.6	3.46	0.48
Veterans' Benefit	361	11.3	214.7	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	60.9	498.5	81	0.0	0.0	4.39	0.36
Survivor Benefits	361	22.4	271.4	71	50.7	427.2	70	0.0	0.0	72	0.0	0.0	67	66.8	451.1	81	0.0	0.0	5.90	0.21
Family Benefits Allowance	361	280.0	1472.3	71	107.7	907.2	70	382.1	1624.0	72	490.8	1992.0	67	187.9	1371.9	81	231.5	1265.2	4.43	0.35
Welfare or Social Assistance	361	477.5	2181.8	71	247.0	1078.8	70	305.4	1425.2	72	486.1	1837.2	67	819.2	2156.1	81	537.8	3412.5	4.42	0.35
Employment Insurance	361	77.4	975.5	71	0.0	0.0	70	285.4	2038.2	72	100.0	848.5	67	11.3	92.9	81	0.0	0.0	3.80	0.43
Other government cheque (Child tax credit, GST, income tax rebate)	361	7.6	77.4	71	4.5	37.5	70	11.3	94.7	72	6.4	39.2	67	0.0	0.0	81	14.3	128.4	1.94	0.75

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	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	KW Test	p-values
Private Insurance	349	1477.0	5925.8	68	1058.1	3630.0	68	1794.7	7881.5	67	1141.4	5574.8	66	2294.9	7658.2	78	1155.5	3852.5	1.03	0.91
Total Cash Transfer cost	361	8718.2	8258.5	71	6682.7	6619.7	70	9110.2	10782.3	72	8829.6	7001.9	67	9080.9	9319.2	81	9764.8	6935.1	9.33	0.05
Other Source of Income																				
Investment Income	358	102.8	1498.2	68	388.2	3201.5	70	0.0	0.0	72	0.0	0.0	67	155.2	1270.6	81	0.0	0.0	3.31	0.51
Salary	346	1625.8	9079.6	66	2438.7	11826.8	65	2425.7	8072.2	71	3206.0	14395.2	64	239.2	1121.2	80	12.0	107.3	6.06	0.20
Help from ASO	361	3.3	63.2	71	0.0	0.0	70	0.0	0.0	72	0.0	0.0	67	0.0	0.0	81	14.8	133.3	3.46	0.48
Other non government source of income	361	24.6	408.9	71	108.2	911.5	70	0.0	0.0	72	0.0	0.0	67	17.9	146.6	81	0.0	0.0	3.24	0.52
Total Income Source	361	2027.6	9241.2	71	2981.7	11774.5	70	2367.3	7825.2	72	3651.8	14380.7	67	830.3	2324.0	81	444.4	3893.5	8.16	0.09

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

	Total (N=360)		Depressed Group				Test Statistics	
			Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)			
	Count	%	Count	%	Count	%	Chi-square	p-values
Age								
20-29	23	6.60%	16	8.20%	7	4.60%		
30-39	122	35.20%	63	32.10%	59	39.10%		
40-49	144	41.50%	84	42.90%	60	39.70%	7.817	0.099
50-59	47	13.50%	30	15.30%	17	11.30%		
60-69	11	3.20%	3	1.50%	8	5.30%		
Total	347	100.00%	196	100.00%	151	100.00%		
1. Gender								
Male	277	78.20%	161	79.30%	116	76.80%		
Female	72	20.30%	39	19.20%	33	21.90%	0.380	0.827
Transgender	5	1.40%	3	1.50%	2	1.30%		
Total	354	100.00%	203	100.00%	151	100.00%		
3. Highest level of education you have obtained								
Grade school	28	8.00%	13	6.40%	15	10.00%		
High school or equivalent	91	25.90%	57	28.20%	34	22.70%		
Some/complete college	114	32.40%	69	34.20%	45	30.00%	6.211	0.286
Some/complete university	108	30.70%	56	27.70%	52	34.70%		
Other	10	2.80%	7	3.50%	3	2.00%		
Professional Degree	1	0.30%	0	0.00%	1	0.70%		
Total	352	100.00%	202	100.00%	150	100.00%		
4. Marital Status								
Single/Never Married	180	50.80%	109	53.70%	71	47.00%		
Divorced/Separated/Widow	66	18.60%	36	17.70%	30	19.90%	1.555	0.459
Married/Common-law/Partner	108	30.50%	58	28.60%	50	33.10%		
Total	354	100.00%	203	100.00%	151	100.00%		
5. What are your current living arrangements?								
Your house/apartment	245	69.40%	139	68.80%	106	70.20%		
Transitional housing	19	5.40%	13	6.40%	6	4.00%		
Homeless/street	5	1.40%	2	1.00%	3	2.00%		
Someone else's house/apartment	37	10.50%	18	8.90%	19	12.60%		
Residential housing subsidized	43	12.20%	28	13.90%	15	9.90%	7.979	0.435
Hospital	1	0.30%	1	0.50%	0	0.00%		
Recovery Home	1	0.30%	0	0.00%	1	0.70%		
Supportive Housing	1	0.30%	0	0.00%	1	0.70%		
Co-op	1	0.30%	1	0.50%	0	0.00%		
Total	353	100.00%	202	100.00%	151	100.00%		
6. Geographic location								
City core	240	68.80%	143	71.50%	97	65.10%		
Rural	37	10.60%	16	8.00%	21	14.10%	3.505	0.320
City suburbs	42	12.00%	24	12.00%	18	12.10%		
GTA	30	8.60%	17	8.50%	13	8.70%		

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

	Total (N=360)	Depressed Group				Test Statistics			
		Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)		Chi-square	p-values		
		Count	%	Count	%				
Total	349	100.00%	200	100.00%	149	100.00%			
7. Citizenship status									
Canadian citizen	317	89.80%	183	90.60%	134	88.70%			
Landed Immigrant	21	5.90%	14	6.90%	7	4.60%			
Refugee	11	3.10%	4	2.00%	7	4.60%	7.514	0.185	
Visitor/Tourist	1	0.30%	0	0.00%	1	0.70%			
First Nations	1	0.30%	1	0.50%	0	0.00%			
Diplomat	2	0.60%	0	0.00%	2	1.30%			
Total	353	100.00%	202	100.00%	151	100.00%			
Do you currently live with someone?									
Live alone	173	48.90%	102	50.20%	71	47.00%			
Spouse or partner	77	21.80%	43	21.20%	34	22.50%			
Spouse/Partner and Friends	27	7.60%	17	8.40%	10	6.60%			
Spouse/Partner and Children	20	5.60%	15	7.40%	5	3.30%			
Spouse/Partner and family members	15	4.20%	5	2.50%	10	6.60%			
Spouse/Partner, friends and family members	18	5.10%	11	5.40%	7	4.60%	13.701	0.187	
Friend(s)	4	1.10%	2	1.00%	2	1.30%			
Children	15	4.20%	7	3.40%	8	5.30%			
Children and Family members	2	0.60%	0	0.00%	2	1.30%			
Family members	2	0.60%	0	0.00%	2	1.30%			
Others	1	0.30%	1	0.50%	0	0.00%			
Total	354	100.00%	203	100.00%	151	100.00%			
8b. Do you live with a caregiver?									
Yes	33	9.30%	21	10.30%	12	7.90%			
No	321	90.70%	182	89.70%	139	92.10%	0.589	0.443	
Total	354	100.00%	203	100.00%	151	100.00%			
10a. Do you identify with a particular community?									
MSM									
Yes	50	14.20%	24	11.90%	26	17.20%			
No	303	85.80%	178	88.10%	125	82.80%	2.025	0.155	
Total	353	100.00%	202	100.00%	151	100.00%			
IDU									
Yes	23	6.50%	12	5.90%	11	7.30%			
No	330	93.50%	190	94.10%	140	92.70%	0.256	0.613	
Total	353	100.00%	202	100.00%	151	100.00%			
HIV endemic countries									
Yes	20	5.70%	11	5.40%	9	6.00%			
No	333	94.30%	191	94.60%	142	94.00%	0.043	0.836	
Total	353	100.00%	202	100.00%	151	100.00%			
Heterosexual									

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

		Depressed Group						Test Statistics	
		Total (N=360)		Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)			
		Count	%	Count	%	Count	%	Chi-square	p-values
	Yes	84	23.80%	48	23.80%	36	23.80%		
	No	269	76.20%	154	76.20%	115	76.20%	0.001	0.986
	Total	353	100.00%	202	100.00%	151	100.00%		
Bisexual									
	Yes	45	12.70%	31	15.30%	14	9.30%		
	No	308	87.30%	171	84.70%	137	90.70%	2.867	0.090
	Total	353	100.00%	202	100.00%	151	100.00%		
HIV-T (Transfusion)									
	Yes	11	3.10%	8	4.00%	3	2.00%		
	No	342	96.90%	194	96.00%	148	98.00%	1.115	0.291
	Total	353	100.00%	202	100.00%	151	100.00%		
Male									
	Yes	216	61.20%	118	58.40%	98	64.90%		
	No	137	38.80%	84	41.60%	53	35.10%	1.530	0.216
	Total	353	100.00%	202	100.00%	151	100.00%		
Female									
	Yes	73	20.70%	43	21.30%	30	19.90%		
	No	280	79.30%	159	78.70%	121	80.10%	0.106	0.745
	Total	353	100.00%	202	100.00%	151	100.00%		
Transgender									
	Yes	12	3.40%	9	4.50%	3	2.00%		
	No	341	96.60%	193	95.50%	148	98.00%	1.604	0.205
	Total	353	100.00%	202	100.00%	151	100.00%		
Aboriginal									
	Yes	27	7.60%	14	6.90%	13	8.60%		
	No	326	92.40%	188	93.10%	138	91.40%	0.345	0.557
	Total	353	100.00%	202	100.00%	151	100.00%		
Ethno-specific									
	Yes	31	8.80%	20	9.90%	11	7.30%		
	No	322	91.20%	182	90.10%	140	92.70%	0.738	0.390
	Total	353	100.00%	202	100.00%	151	100.00%		
Street Involved									
	Yes	22	6.20%	13	6.40%	9	6.00%		
	No	331	93.80%	189	93.60%	142	94.00%	0.033	0.855
	Total	353	100.00%	202	100.00%	151	100.00%		
Youth (under 20 years old)									
	Yes	6	1.70%	5	2.50%	1	0.70%		
	No	347	98.30%	197	97.50%	150	99.30%	1.700	0.192
	Total	353	100.00%	202	100.00%	151	100.00%		
Youth (21-24 years old)									
	Yes	12	3.40%	9	4.50%	3	2.00%		

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

		Depressed Group						Test Statistics	
		Total (N=360)		Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)			
		Count	%	Count	%	Count	%	Chi-square	p-values
	No	341	96.60%	193	95.50%	148	98.00%	1.604	0.205
	Total	353	100.00%	202	100.00%	151	100.00%		
Youth (25-29 years old)									
	Yes	29	8.20%	19	9.40%	10	6.60%		
	No	324	91.80%	183	90.60%	141	93.40%	0.888	0.346
	Total	353	100.00%	202	100.00%	151	100.00%		
Youth (30 years and older)									
	Yes	58	16.40%	38	18.80%	20	13.20%		
	No	295	83.60%	164	81.20%	131	86.80%	1.950	0.163
	Total	353	100.00%	202	100.00%	151	100.00%		
Mental Health group									
	Yes	54	15.30%	41	20.30%	13	8.60%		
	No	299	84.70%	161	79.70%	138	91.40%	9.110	0.003
	Total	353	100.00%	202	100.00%	151	100.00%		
Physical Health i.e. disability etc									
	Yes	75	21.20%	51	25.20%	24	15.90%		
	No	278	78.80%	151	74.80%	127	84.10%	4.518	0.034
	Total	353	100.00%	202	100.00%	151	100.00%		
Other									
	Yes	129	36.50%	67	33.20%	62	41.10%		
	No	224	63.50%	135	66.80%	89	58.90%	2.320	0.128
	Total	353	100.00%	202	100.00%	151	100.00%		
10b. With which of the above communities do you identify yourself with the most									
	None	58	16.30%	40	19.60%	18	11.90%		
	MSM	21	5.90%	10	4.90%	11	7.30%		
	Gay	84	23.70%	44	21.60%	40	26.50%		
	IDU	7	2.00%	2	1.00%	5	3.30%		
	HIV Endemic Countries	2	0.60%	2	1.00%	0	0.00%		
	Heterosexual	22	6.20%	12	5.90%	10	6.60%	33.996	0.468
	Bisexual	9	2.50%	4	2.00%	5	3.30%		
	HIV-Transfusion	1	0.30%	0	0.00%	1	0.70%		
	Aboriginal	8	2.30%	4	2.00%	4	2.60%		
	Ethno-specific	10	2.80%	6	2.90%	4	2.60%		
	Street Involved	8	2.30%	4	2.00%	4	2.60%		
	Youth	5	1.40%	3	1.50%	2	1.30%		
	Mental Health Related	8	2.30%	7	3.40%	1	0.70%		
	Physical Health Related	5	1.40%	4	2.00%	1	0.70%		
	Male	45	12.70%	25	12.30%	20	13.20%		
	Female	20	5.60%	8	3.90%	12	7.90%		
	Transgender	3	0.80%	3	1.50%	0	0.00%		
	None	10	2.80%	6	2.90%	4	2.60%		

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

		Total (N=360)		Depressed Group				Test Statistics	
				Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)			
		Count	%	Count	%	Count	%	Chi-square	p-values
Hep C, HIV female	1	0.30%	1	0.50%	0	0.00%			
Drag Queen	2	0.60%	2	1.00%	0	0.00%			
HIV	3	0.80%	2	1.00%	1	0.70%			
Youth (30 years and older)	6	1.70%	5	2.50%	1	0.70%			
Poor	1	0.30%	1	0.50%	0	0.00%			
Village	1	0.30%	1	0.50%	0	0.00%			
Hood	1	0.30%	1	0.50%	0	0.00%			
Human being	2	0.60%	1	0.50%	1	0.70%			
Youth (21-24 years old)	3	0.80%	2	1.00%	1	0.70%			
Homosexual	1	0.30%	0	0.00%	1	0.70%			
Youth (25-29 years old)	2	0.60%	1	0.50%	1	0.70%			
Self	1	0.30%	0	0.00%	1	0.70%			
Mother	1	0.30%	0	0.00%	1	0.70%			
Christian	1	0.30%	1	0.50%	0	0.00%			
PWA	1	0.30%	1	0.50%	0	0.00%			
Rural	1	0.30%	0	0.00%	1	0.70%			
Hamilton Aids Network	1	0.30%	1	0.50%	0	0.00%			
Total	355	100.00%	204	100.00%	151	100.00%			
KRS Measures									
In general, how would you rate your overall health?									
Not stated	4	1.10%	3	1.50%	1	0.70%			
Excellent	46	13.00%	17	8.30%	29	19.20%			
Good	149	42.00%	68	33.30%	81	53.60%			
Fair	129	36.30%	94	46.10%	35	23.20%	37.238	<0.001	
Very Bad	14	3.90%	10	4.90%	4	2.60%			
Terrible	8	2.30%	7	3.40%	1	0.70%			
Don't know	5	1.40%	5	2.50%	0	0.00%			
Total	355	100.00%	204	100.00%	151	100.00%			
Current Stage of Illness (KRS scale)									
20 Very sick; hospitalization necessary; active, supportive treatment necessary	2	0.60%	2	1.00%	0	0.00%			
30 Severely disabled; hospitalization indicated although death not imminent (ambulatory 50% or less of time; tends to need nursing care)	3	0.90%	1	0.50%	2	1.40%			
40 Disabled; requires special care and assistance	7	2.10%	4	2.10%	3	2.00%	34.991	<0.001	
50 Requires considerable assistance and frequent medical care	21	6.20%	18	9.40%	3	2.00%			

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

		Total (N=360)		Depressed Group				Test Statistics	
				Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)			
		Count	%	Count	%	Count	%	Chi-square	p-values
60	Requires occasional assistance but is able to care for most of own needs (ambulatory more than 50% of time; occasionally needs assistance)	30	8.80%	24	12.50%	6	4.10%		
70	Cares for self; unable to carry on normal activity or to do active work	36	10.60%	28	14.60%	8	5.40%		
80	Normal activity with effort; some signs or symptoms of disease	91	26.80%	51	26.60%	40	27.00%		
90	Able to carry on normal activity; minor signs or symptoms of diseases	101	29.70%	45	23.40%	56	37.80%		
100	Normal; no complaints; no evidence of disease (exhibits norm activity)	49	14.40%	19	9.90%	30	20.30%		
	Total	340	100.00%	192	100.00%	148	100.00%		
Coping Measures Related PHA Support Programs									
12hh. Seek PHA support through PHA Caucus									
	No	196	63.00%	103	57.90%	93	69.90%		
	Yes, once or twice	49	15.80%	30	16.90%	19	14.30%		
	Yes, sometimes	47	15.10%	33	18.50%	14	10.50%	5.582	0.134
	Yes, fairly often	19	6.10%	12	6.70%	7	5.30%		
	Total	311	100.00%	178	100.00%	133	100.00%		
12ii. Seek PHA support through OAN									
	No	198	63.30%	106	58.90%	92	69.20%		
	Yes, once or twice	45	14.40%	30	16.70%	15	11.30%		
	Yes, sometimes	57	18.20%	36	20.00%	21	15.80%	3.654	0.301
	Yes, fairly often	13	4.20%	8	4.40%	5	3.80%		
	Total	313	100.00%	180	100.00%	133	100.00%		
12jj. Seek PHA support through friends, family etc									
	No	101	32.20%	59	33.00%	42	31.10%		
	Yes, once or twice	70	22.30%	43	24.00%	27	20.00%		
	Yes, sometimes	86	27.40%	53	29.60%	33	24.40%	6.554	0.088
	Yes, fairly often	57	18.20%	24	13.40%	33	24.40%		
	Total	314	100.00%	179	100.00%	135	100.00%		
12kk. Draw on skills acquired at PHA Caucus meetings									
	No	200	64.10%	112	62.20%	88	66.70%		
	Yes, once or twice	44	14.10%	30	16.70%	14	10.60%		
	Yes, sometimes	51	16.30%	28	15.60%	23	17.40%	2.390	0.496
	Yes, fairly often	17	5.40%	10	5.60%	7	5.30%		
	Total	312	100.00%	180	100.00%	132	100.00%		

Table 10a
Service Information and Demographic By Depressed vs. Not Depressed Group

	Total (N=360)		Depressed Group				Test Statistics	
			Depressed (CESD > 20) (N=206)		Not Depressed (CESD ≤ 20) (N=154)			
	Count	%	Count	%	Count	%	Chi-square	p-values
121l. Draw on skills acquired at OAN workshops								
No	190	60.30%	104	57.10%	86	64.70%		
Yes, once or twice	51	16.20%	35	19.20%	16	12.00%		
Yes, sometimes	57	18.10%	33	18.10%	24	18.00%	3.189	0.363
Yes, fairly often	17	5.40%	10	5.50%	7	5.30%		
Total	315	100.00%	182	100.00%	133	100.00%		

Table 10b

Comparison of Demographic, Current Stage of Illness, Depression, Coping Measures and Health Related Quality of Life Dimensions By Depressed (CES-D > 20) vs Not Depressed Group (CES-D < = 20)

	Group Total			Depressed Group						Test Statistics	
				Depressed (CESD > 20)			Not Depressed (CESD<=20)				
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	T Test	P-values
Demographic											
Age	347	41.9	8.5	196	41.5	8.3	151	42.4	8.7	-0.957	0.339
9. What is the length of time that you have been diagnosed with HIV/AIDS (yrs)?	346	8.6	5.0	196	8.6	5.0	150	8.7	5.1	-0.325	0.745
Current stage Of illness											
Current Stage of illness (KRS scale)	340	79.6	16.3	192	75.8	16.7	148	84.4	14.4	-5.063	0.000
CD4 plus lymphocyte count	223	580.1	710.4	130	658.8	872.9	93	469.9	358.5	2.220	0.028
CD4 %	163	276.4	262.4	92	289.6	246.2	71	259.4	283.0	0.728	0.467
Depression Score (CES-D)											
Depression Score (CES-D)	355	23.6	12.9	204	32.6	8.7	151	11.5	5.5	28.005	0.000
Coping Measures											
Cognitive (0-33)	352	20.1	6.0	201	19.5	6.3	151	21.0	5.3	-2.413	0.016
Active behavioural (0-39)	352	22.6	6.5	201	21.8	6.6	151	23.7	6.1	-2.788	0.006
Avoidance (0-24)	338	7.8	4.1	192	9.3	3.9	146	5.9	3.5	8.387	0.000
Logical analysis (0-12)	353	8.1	3.2	202	7.6	3.6	151	8.7	2.5	-3.356	0.001
Information seeking (0-21)	353	11.6	4.2	202	11.2	4.1	151	12.3	4.3	-2.530	0.012
Problem solving (0-15)	351	9.3	2.9	200	8.8	3.0	151	10.0	2.6	-4.093	0.000
Affective regulation (0-18)	351	10.3	3.6	200	9.9	3.5	151	10.7	3.8	-2.029	0.043
Emotional discharge 0-18)	338	6.3	3.5	192	7.3	3.5	146	5.0	3.1	6.308	0.000
Under a stressful event, would you....											
12hh. Seek PHA support through PHA Caucus	311	0.6	0.9	178	0.7	1.0	133	0.5	0.9	2.162	0.031
12ii. Seek PHA support through OAN	313	0.6	0.9	180	0.7	0.9	133	0.5	0.9	1.509	0.132
12jj. Seek PHA support through friends, family etc	314	1.3	1.1	179	1.2	1.1	135	1.4	1.2	-1.468	0.143
12kk. Draw on skills acquired at PHA Caucus meetings	312	0.6	0.9	180	0.6	0.9	132	0.6	1.0	0.285	0.776
12ll. Draw on skills acquired at OAn workshops	315	0.7	1.0	182	0.7	0.9	133	0.6	1.0	0.743	0.458
Health Related Quality of Life Measures (Raw Scores)											
General Health Perceptions (5-25)	351	13.9	5.2	201	12.2	4.5	150	16.1	5.2	-7.433	0.000
Physical Function (6-18)	352	14.3	3.2	201	13.7	3.0	151	15.2	3.1	-4.694	0.000
Role Function (2-4)	354	2.8	0.9	203	2.6	0.8	151	3.0	0.9	-4.629	0.000
Social Function (1-6)	352	4.3	1.5	202	3.8	1.4	150	4.9	1.3	-7.466	0.000
Cognitive Function (4-24)	354	17	5.3	203	14.6	4.8	151	20.2	4.0	-11.785	0.000
Pain (2-11)	355	7.2	2.3	204	6.5	2.2	151	8.1	2.2	-6.929	0.000
Mental Function (5-30)	354	19.9	5.4	203	16.8	4.3	151	24.0	3.7	-17.039	0.000
Energy/Fatigue (4-24)	354	13.3	4.2	203	11.7	3.6	151	15.5	4.1	-9.053	0.000
Health Distress (4-24)	355	16.2	5.3	204	13.9	4.9	151	19.4	4.1	-11.583	0.000
Quality of life (1-5)	352	3.3	0.9	201	3	0.9	151	3.8	0.7	-8.864	0.000
Health Transition (1-6)	352	3.3	1.0	201	3.1	1.0	151	3.5	0.9	-3.992	0.000
Total Physical health summary raw scores	354	55.7	13.6	203	50.4	11.4	151	62.8	13.0	-9.561	0.000

Table 10b

Comparison of Demographic, Current Stage of Illness, Depression, Coping Measures and Health Related Quality of Life Dimensions By Depressed (CES-D > 20) vs Not Depressed Group (CES-D < = 20)

	Group Total			Depressed Group						Test Statistics	
				Depressed (CESD > 20)			Not Depressed (CESD<=20)				
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	T Test	P-values
Total mental health summary raw scores	355	88	21.6	204	76.1	16.6	151	104.0	16.8	-15.584	0.000
Health Related Quality of Life Measures (Index Scores)											
Overall Health Perception Index score	351	44.5	25.8	201	36.1	22.5	150	55.7	25.8	-7.433	0.000
Physical Function index score	352	69.5	26.3	201	63.9	25.4	151	76.8	25.7	-4.694	0.000
Role Function index score	354	38	43.8	203	28.8	40.4	151	50.3	45.3	-4.629	0.000
Social Function index score	352	65.7	29.2	202	56.5	28.4	150	78.1	25.6	-7.466	0.000
Cognitive Function index score	354	64.9	26.3	203	53.1	24.2	151	80.8	20.0	-11.785	0.000
Pain function index score	355	57.6	25.9	204	49.9	24.5	151	67.9	24.1	-6.929	0.000
Mental Health Index score	354	59.6	21.5	203	47.3	17.1	151	76.1	14.7	-17.039	0.000
Energy/Fatigue index score	354	46.5	21.2	203	38.5	18.1	151	57.3	20.3	-9.053	0.000
Health Distress index score	355	61.2	26.7	204	49.4	24.4	151	77.2	20.7	-11.583	0.000
Quality of Life index score	352	58.5	23.1	201	49.9	22.6	151	69.9	18.6	-8.864	0.000
Health Transition index score	352	57.5	24.5	201	53.1	25.0	151	63.4	22.5	-3.992	0.000
Physical Health Summary Index score	354	52.5	19.9	203	44.7	16.8	151	63.0	19.0	-9.561	0.000
Mental Health Summary index score	355	56.1	19.0	204	45.7	14.5	151	70.2	14.8	-15.584	0.000
Social Support Measures											
Confidant Support (5-30)	353	15.5	7.0	203	17.7	6.8	150	12.6	6.2	7.277	0.000
Affective Support (3-18)	352	8.9	4.3	202	10	4.3	150	7.3	3.9	6.148	0.000
Client Satisfaction Scores											
Client satisfaction score for PHA Program (8-32)	168	24.4	5.0	107	24.1	4.3	61	25.1	5.9	-1.133	0.260
Client satisfaction score for PHA Caucus (8-32)	148	23	5.4	93	22.9	4.8	55	23.1	6.4	-0.139	0.890
Client satisfaction score for Other OAN Services (8-32)	162	24.2	5.1	99	23.7	4.5	63	25.0	5.7	-1.476	0.143

Table 11
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO user groups

	Depressed Group											
	Count			Depressed > 20			Not Depressed <=20			Test Statistics		
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	Mann-Whitney U	Z	p-values
Direct Cost												
Family physician (primary care)	353	303.70	375.10	203	299.70	376.00	150	309.20	374.90	14831.0	-0.448	0.654
Infectious disease/HIV specialist	353	430.70	530.60	203	407.30	554.30	150	462.40	496.90	13965.0	-1.456	0.145
Physician Specialist	353	595.30	993.00	203	594.00	1051.90	150	597.10	910.70	14093.5	-1.382	0.167
Emergency department physician and service	353	598.90	2874.50	203	833.20	3667.90	150	281.90	1051.30	13969.0	-2.247	0.025
Psychiatrist (mental health specialist)	353	110.50	352.00	203	132.80	408.70	150	80.30	254.30	14776.5	-0.833	0.405
Optometrist	353	34.40	156.60	203	39.90	174.70	150	27.00	128.30	15029.0	-0.529	0.597
Chiropractor	353	36.50	210.20	203	38.90	186.60	150	33.20	239.00	14797.5	-1.126	0.260
Naturopath / homeopath	353	69.80	355.80	203	64.90	353.20	150	76.30	360.50	15158.0	-0.185	0.853
Nutritionist	353	32.00	166.00	203	31.80	178.00	150	32.20	148.80	15119.0	-0.320	0.749
Nurse Practitioner	353	18.50	88.60	203	16.60	83.60	150	21.00	95.20	15034.0	-0.492	0.623
Visiting nurse (Home Care/PH/VON/SEN)	353	53.60	352.60	203	29.80	130.20	150	86.00	518.60	15027.0	-0.510	0.610
Physiotherapist	353	51.00	456.40	203	63.40	545.90	150	34.30	296.00	15153.5	-0.293	0.770
Occupational therapist	353	20.80	243.20	203	10.40	104.00	150	35.00	353.10	15171.0	-0.311	0.756
Psychologist/Psychotherapy	353	134.60	618.70	203	195.10	763.40	150	52.80	320.10	14498.0	-1.962	0.050
Social worker	353	359.30	1008.60	203	309.10	866.80	150	427.40	1173.40	14904.0	-0.519	0.604
Family Counsellor/Counsellor	353	63.10	407.10	203	107.80	532.30	150	2.50	30.10	14571.5	-2.291	0.022
Addictions counsellor	353	81.60	544.10	203	23.60	167.20	150	160.00	806.70	14804.5	-1.474	0.140
Needle exchange program	353	2.00	17.80	203	2.80	22.40	150	1.00	8.20	15052.0	-0.756	0.450
Support groups / peer support	353	63.20	203.90	203	67.80	216.20	150	57.00	186.60	15005.5	-0.408	0.683
Health education / prevention talks	353	18.60	115.20	203	17.30	114.00	150	20.40	117.20	15165.0	-0.210	0.833
Recreation activities	353	5.90	37.20	203	4.00	26.00	150	8.50	48.50	15060.5	-0.553	0.580
Financial assistance program	353	19.30	90.90	203	15.80	78.00	150	24.00	106.00	15009.0	-0.632	0.527
Advocacy services	353	71.40	483.90	203	62.10	452.40	150	84.00	525.00	15092.5	-0.486	0.627
Probationary officer	353	6.80	89.90	203	5.90	83.90	150	8.00	97.70	15198.5	-0.215	0.830
In Jail/penitentiary	353	111.40	1679.10	203	193.70	2212.90	150	0.00	0.00	15075.0	-1.217	0.223
Other Health or Social Service	353	9.30	73.80	203	9.70	72.00	150	8.80	76.40	15132.0	-0.438	0.661
Meal /Soup Kitchen	353	0.60	10.90	203	0.00	0.00	150	1.40	16.70	15123.5	-1.163	0.245
Food Bank (ASO, or community-based)	353	156.80	431.90	203	197.90	497.50	150	101.20	315.90	13927.5	-2.107	0.035

Table 11
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO user groups

	Depressed Group											
	Count			Depressed > 20			Not Depressed <=20			Test Statistics		
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	Mann-Whitney U	Z	p-values
Private personal nurse (paid, not home care)	353	0.00	0.00	203	0.00	0.00	150	0.00	0.00	15225.0	0.000	1.000
General homemakers e.g. Visiting Homemaker Assoc	353	87.10	659.60	203	99.30	795.40	150	70.50	412.00	14873.0	-1.098	0.272
Grocery Delivery	353	0.00	0.00	203	0.00	0.00	150	0.00	0.00	15225.0	0.000	1.000
House Cleaning only	353	64.60	541.30	203	10.70	108.30	150	137.40	816.80	14761.5	-1.897	0.058
Child or Adult care	353	3.40	63.90	203	0.00	0.00	150	8.00	98.00	15123.5	-1.163	0.245
Employment retraining program	353	22.40	214.10	203	23.40	235.30	150	21.10	182.30	15204.0	-0.108	0.914
Financial Services(advice/assistance with budgeting, banking, paying bills or taxes	353	2.20	41.50	203	3.80	54.70	150	0.00	0.00	15150.0	-0.860	0.390
Other community paid support services	353	38.60	323.80	203	39.30	352.50	150	37.60	281.40	15156.0	-0.282	0.778
Use of unpaid/voluntary community support services	353	1026.20	4034.50	203	1125.30	4311.90	150	892.10	3635.50	14583.0	-0.820	0.412
Outpatient Laboratory test	353	1080.30	1641.00	203	1115.80	1742.30	150	1032.20	1497.30	15063.0	-0.174	0.862
Medical Procedures	353	114.20	528.00	203	147.40	672.10	150	69.70	212.70	14703.5	-0.513	0.608
Blood works/tests	353	497.30	556.80	203	459.80	523.20	150	548.20	597.30	14063.0	-1.273	0.203
Other outpatient Diagnostic tests	353	469.40	1251.50	203	510.10	1324.90	150	414.30	1146.90	14692.5	-0.673	0.501
911- Services	353	16.60	111.40	203	27.60	144.70	150	1.90	22.80	14424.5	-2.589	0.010
Ambulance Services	353	199.90	1387.20	203	304.10	1765.30	150	58.80	535.30	14678.0	-1.838	0.066
Medication cost	345	9509.40	9810.60	197	8316.50	10134.40	148	11097.40	9156.60	11330.0	-3.559	0.000
Complementary Therapies used	351	283.30	922.10	202	306.80	1080.70	149	251.40	650.20	14738.0	-0.446	0.655
Supplies, aids or special devices purchased/leased	353	233.00	2083.70	203	222.00	2206.10	150	248.00	1912.60	15119.0	-0.434	0.664
Parking cost	353	3.30	37.20	203	2.20	21.50	150	4.80	51.30	15205.0	-0.103	0.918
Mileage cost	353	7.10	67.50	203	9.80	80.50	150	3.60	44.10	15100.5	-0.717	0.474
Other transportation (cab, bus, train, plane) expenses	353	50.40	258.70	203	47.90	233.10	150	53.80	290.50	14765.0	-1.135	0.257
Direct cost without hospital cost	353	16890.30	18472.70	203	15537.00	18038.80	150	18721.80	18951.00	12690.5	-2.674	0.007
Hospital stay cost	353	2673.40	19586.50	203	2332.40	13149.10	150	3134.80	25913.80	14913.0	-0.913	0.361
Direct cost include hospital cost	353	19563.70	28815.20	203	17869.40	22540.00	150	21856.60	35546.80	13104.5	-2.238	0.025
Grand total excluding hospital cost	353	18535.60	19235.50	203	17340.80	19161.00	150	20152.50	19281.80	12991.5	-2.357	0.018

Table 11
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO user groups

		Depressed Group											
		Count			Depressed > 20			Not Depressed <=20			Test Statistics		
		N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	Mann-Whitney U	Z	p-values
	Grand total cost including hospital cost	353	21209.00	29233.70	203	19673.20	23396.60	150	23287.30	35626.60	13418.5	-1.906	0.057
Out of Pocket Cost													
	Meal Services	353	9.20	131.10	203	14.30	171.80	150	2.40	21.90	15174.0	-0.294	0.769
	Private personal nurse (paid, not home care)	353	59.20	597.00	203	31.70	451.40	150	96.50	750.50	14996.0	-1.318	0.188
	General homemakers e.g. Visiting Homemaker Assoc	353	0.00	0.00	203	0.00	0.00	150	0.00	0.00	15225.0	0.000	1.000
	Grocery Delivery	353	1.00	11.30	203	1.00	10.90	150	1.00	11.80	15177.0	-0.319	0.750
	House Cleaning only	353	31.40	220.00	203	29.80	207.00	150	33.60	237.20	15084.5	-0.543	0.587
	Child or Adult care	353	26.70	294.70	203	22.80	194.90	150	32.00	391.90	15103.0	-0.702	0.483
	Employment retraining program	353	0.00	0.00	203	0.00	0.00	150	0.00	0.00	15225.0	0.000	1.000
	Financial Services(advice/assistance with budgeting, banking, paying bills or taxes	353	2.00	38.30	203	0.00	0.00	150	4.80	58.80	15123.5	-1.163	0.245
	Other health and social services	353	7.10	127.90	203	0.60	8.40	150	16.00	196.00	15198.0	-0.219	0.827
	Medications	345	581.40	2291.30	197	533.30	1393.20	148	645.30	3112.90	14413.5	-0.204	0.838
	Complementary Therapies used	351	390.20	1038.00	202	469.50	1169.30	149	282.60	819.00	14408.0	-0.822	0.411
	Supplies, aids or special devices purchased/leased	353	108.30	1237.90	203	157.90	1596.80	150	41.10	394.20	14779.5	-1.441	0.150
	Parking cost	353	63.70	487.10	203	77.60	611.30	150	44.80	231.10	14783.0	-0.805	0.421
	Mileage cost	353	162.40	1598.40	203	220.10	2083.60	150	84.30	373.10	14436.0	-1.465	0.143
	Other transportation (cab, bus, train, plane) expenses	353	218.10	619.10	203	263.40	748.90	150	156.80	372.50	13585.5	-2.184	0.029
	Total Out of Pocket Cost	353	1645.30	3783.60	203	1803.90	3909.00	150	1430.70	3608.80	14260.5	-1.041	0.298
Cash Transfer Cost													
	Workplace Safety and Insurance Information Board (WSIB)	353	39.90	482.50	203	57.10	611.80	150	16.60	203.80	15175.5	-0.328	0.743
	Ontario Disability Support Program (ODSP)	353	3609.20	4880.60	203	3727.00	5038.10	150	3449.90	4670.90	14676.5	-0.642	0.521
	Canada Pensions	353	2667.50	4322.30	203	2477.60	4343.80	150	2924.40	4294.00	14283.5	-1.210	0.226
	Company Pensions	347	356.70	2380.00	201	415.70	2780.00	146	275.40	1686.50	14586.5	-0.285	0.776

Table 11
Mean Annual Expenditure on Health and Social Service Utilization By OAN & CBO user groups

	Depressed Group											
	Count			Depressed > 20			Not Depressed <=20			Test Statistics		
	N	Mean	S.D.	N	Mean	S.D.	N	Mean	S.D.	Mann-Whitney U	Z	p-values
Old Age Security	353	48.70	528.20	203	0.00	0.00	150	114.60	807.20	14819.0	-2.337	0.019
GAINS	353	17.90	337.00	203	0.00	0.00	150	42.20	517.00	15123.5	-1.163	0.245
Veterans' Benefit	353	11.60	217.20	203	20.10	286.40	150	0.00	0.00	15150.0	-0.860	0.390
Survivor Benefits	353	12.70	197.10	203	22.00	259.70	150	0.00	0.00	15075.0	-1.217	0.223
Family Benefits Allowance	353	286.30	1488.40	203	304.00	1470.20	150	262.40	1517.20	14844.5	-1.082	0.279
Welfare or Social Assistance	353	488.30	2205.20	203	625.30	2675.00	150	302.80	1314.10	14900.5	-0.687	0.492
Employment Insurance	353	79.20	986.50	203	86.50	1180.10	150	69.20	641.10	15172.0	-0.305	0.760
Other government cheque (Child tax credit, GST, income tax rebate)	353	7.70	78.20	203	7.10	83.40	150	8.60	70.90	15071.5	-0.791	0.429
Private Insurance	342	1507.30	5982.50	197	1348.90	6095.50	145	1722.50	5839.40	13377.5	-1.929	0.054
Total Cash Transfer Cost	353	8732.70	8287.00	203	8635.80	8460.40	150	8863.80	8072.60	14696.0	-0.561	0.575
Source of Income												
Investment Income	350	105.10	1515.20	202	0.00	0.00	148	248.60	2327.00	14746.0	-1.655	0.098
Salary	338	1664.20	9183.30	196	1309.00	9046.40	142	2154.50	9378.90	13408.5	-1.285	0.199
Help from ASO	353	3.40	63.90	203	0.00	0.00	150	8.00	98.00	15123.5	-1.163	0.245
Other Source of income	353	25.20	413.50	203	5.90	84.20	150	51.20	627.10	15198.0	-0.219	0.827
Total Source of income	353	2073.50	9340.50	203	1681.40	9255.60	150	2604.20	9459.30	14482.0	-1.424	0.154

Table 12
Taking any Antidepressants?

			Depressed Group		Total
			Depressed >20	Not Depressed <=20	
Taking any Antidepressant?	Yes	Count	56	34	90
		% within taking any antidepressant?	62.2%	37.8%	100.0%
		% within Depressed Group	27.5%	22.5%	25.4%
	No	Count	148	117	265
		% within taking any antidepressant?	55.8%	44.2%	100.0%
		% within Depressed Group	72.5%	77.5%	74.6%
Total	Count	204	151	355	
	% within taking any antidepressant?	57.5%	42.5%	100.0%	
	% within Depressed Group	100.0%	100.0%	100.0%	

Table 13
Stepwise Regression of Variables
That Explain the PHA's Physical Health Summary Score:
N=306

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
Current Stage of Illness (KRS Scale)	.591	.349	.347	16.17085	.349	163.849	1	305	<.0001
Depression Score (CES-D)	.712	.507	.504	14.09548	.158	97.426	1	304	<.0001
In general, how would you rate your overall health?	.751	.565	.560	13.27405	.057	39.789	1	303	<.0001
Age	.759	.576	.570	13.12524	.011	7.909	1	302	=.005

Table 14
Stepwise Regression of Variables
That Explain the PHA's Mental Health Summary Score:
N=306

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics				
					R Square Change	F Change	df1	df2	Sig. F Change
Depression Score (CES-D)	.774	.599	.597	11.99573	.599	453.438	1	304	<.0001
In general, how would you rate your overall health?	.815	.665	.662	10.98256	.066	59.677	1	303	<.0001
Current Stage of Illness (KRS Scale)	.829	.686	.683	10.63710	.022	21.000	1	302	<.0001
Confidant Support (5-30)	.832	.692	.687	10.56826	.005	4.948	1	301	.027

APPENDIX C

Alternative Analyses

Table 1
Demographic Characteristics of CBO-users and non-CBO-users

PHA Characteristics	Total PHAs		CBO-users		Non-CBO-users		p-values
	%	(n)	%	(n)	%	(n)	
Age							0.973
20-29	7	(24)	6	(18)	9	(6)	
30-49	76	(272)	77	(218)	76	(54)	
50 +	17	(59)	17	(48)	16	(11)	
Gender							0.079
Male	78	(282)	76	(219)	88	(63)	
Female	21	(75)	23	(67)	11	(8)	
Transgender	1	(5)	1	(4)	1	(1)	
Education							0.678
Primary school	8	(29)	8	(24)	7	(5)	
Year 12	26	(95)	26	(76)	26	(19)	
Some Post Secondary	63	(226)	63	(178)	67	(48)	
Income							0.012
Less than \$10,000	40	(139)	40	(111)	43	(28)	
Between \$10,000 and \$29,000	43	(147)	46	(129)	28	(18)	
Between \$30,000 and \$49,999	10	(34)	8	(23)	17	(11)	
\$50,000 and above	6	(23)	5	(15)	12	(8)	
Marital Status							0.48
Never married	51	(186)	50	(146)	56	(40)	
Separated/Divorced/Widowed	19	(68)	20	(58)	14	(10)	
Married/Common-law	30	(108)	30	(86)	31	(22)	
Living Arrangements							0.595
Own house/apartment	70	(251)	69	(198)	74	(53)	
Homeless/street	2	(6)	2	(5)	1	(1)	
Someone else's apartment	11	(38)	10	(30)	11	(8)	
Transitional/subs. residential housing	17	(62)	19	(53)	13	(9)	
Location							0.743
City Core	69	(245)	70	(199)	65	(46)	
Rural	11	(38)	10	(28)	14	(10)	
Suburbs	21	(73)	21	(58)	22	(15)	
Living Circumstances							0.093
Live alone	49	(178)	49	(141)	51	(37)	
Spouse/partner, alone or with other family or friends	34	(221)	34	(99)	30	(22)	
Children and/or other relatives	11	(39)	10	(30)			
Self-identified as:							
Heterosexual	24	(85)	27	(77)	11	(8)	0.007
Bi-sexual	13	(45)	12	(34)	16	(11)	0.389
Gay (where strongest identification)	23	(84)	24	(70)	19	(14)	
Men having sex with men	14	(50)	14	(41)	13	(9)	0.749
Intravenous drug-users	6	(23)	7	(19)	6	(4)	0.777
HIV-transfusion	3	(11)	3	(9)		(2)	1.000
Male	61	(219)	60	(173)	65	(46)	0.427
Female	21	(75)	22	(64)	16	(11)	0.221
Transgender	3	(12)	3	(9)	4	(3)	0.918
Aboriginal	8	(27)	8	(22)	7	(5)	0.876
Ethno-specific	9	(32)	10	(28)	6	(4)	0.403
Mental health group	15	(54)	16	(47)	10	(7)	0.179
Physical disability	21	(76)	24	(70)	9	(6)	0.004
Street involved	6	(22)	6	(17)	7	(5)	0.709
Living with Caregiver	9	(33)	9	(26)	10	(7)	0.842

Table 2
Health Characteristics of CBO-users and non-CBO-users

Health Characteristics	Total PHAs				CBO-Users				Non-CBO-users				p-values
	% (n)		Mean (SD)		% (n)		Mean (SD)		% (n)		Mean (SD)		
Length of Time with Illness (years)			8.6	(5.0)			8.7	(5.0)			8.4	(4.9)	0.727
CD4 plus lymphocyte count			576.4	(703.8)			585.2	(749.4)			189.0	(422.1)	0.680
CD4%			280.1	(263.3)			285.0	(263.7)			262.1	(264.6)	0.645
Stage of Illness Scale (KRS scale)			79.4	(16.4)			78.6	(16.0)			82.7	(17.7)	0.067
Stage of Illness (KRS)													0.017
Very sick, severely disabled, or disabled	3.8	(13)			1.8	(3)			3.6	(10)			
Requires assistance/unable to carry on normal activity	25.6	(89)			27.8	(78)			16.5	(11)			
Normal activity with symptoms	56.5	(196)			56.4	(158)			56.7	(38)			
Normal activity without symptoms	14.1	(49)			12.1	(34)			22.4	(15)			
Self-rated overall health													0.017
Excellent	13.2	(48)			11.7	(34)			19.4	(14)			
Good	42.1	(153)			41.9	(122)			43.1	(31)			
Fair	36.1	(131)			37.5	(109)			30.6	(22)			
Very bad or terrible	6.1	(22)			6.5	(19)			4.2	(3)			
Depression													0.019
Depressed (CESD = >21)	57.5	(204)			60.5	(173)			44.9	(31)			
Not depressed (CESD = < 20)	42.5	(151)			39.5	(113)			55.1	(38)			
Depression Score			23.6	(12.9)			24.3	(12.5)			20.8	(14.1)	0.045

Table 3
Health-Related Quality of Life, Coping Strategies, and
Social Support among CBO-users and non-CBO-users

	Total PHAs		CBO-Users		Non-CBO-users		p-values
	Mean	(SD)	Mean	(SD)	Mean	(SD)	
Health Related Quality of Life							
Overall Health Perception Index Score	44.6	(25.6)	43.20	(25.6)	50.20	(25.1)	0.040
Physical Function Index Score	69.6	(26.2)	69.50	(25.8)	70.10	(27.8)	0.871
Role Function Index Score	38.3	(43.6)	35.30	(42.6)	50.00	(46.0)	0.011
Social Function Index Score	65.7	(29.0)	64.70	(28.9)	69.40	(29.6)	0.219
Cognitive Function Index Score	64.6	(26.4)	64.10	(25.7)	66.50	(29.3)	0.506
Pain Function Index Score	57.7	(25.9)	56.10	(25.3)	64.40	(27.3)	0.015
Mental Health Index Score	59.4	(21.4)	58.50	(20.7)	63.10	(23.6)	0.105
Energy/Fatigue Index Score	46.6	(21.1)	45.50	(20.9)	51.00	(21.1)	0.050
Health Distress Index Score	61.1	(26.6)	60.80	(25.5)	62.10	(30.6)	0.721
Quality of Life Index Score	58.5	(23.3)	57.90	(22.7)	60.70	(25.4)	0.370
Health Transition Index Score	57.6	(24.5)	58.00	(24.6)	55.70	(24.1)	0.481
Physical Health Summary Index Score	52.7	(19.8)	51.60	(19.8)	57.10	(19.3)	0.035
Mental Health Summary Index Score	56.1	(18.9)	55.20	(18.5)	59.40	(20.4)	0.091
Coping Strategies							
Cognitive	20.2	(5.9)	20.3	(5.6)	19.6	(7.1)	0.398
Active Behavioural	22.6	(6.4)	23.0	(6.3)	21.3	(6.7)	0.045
Avoidance	7.9	(4.1)	8.0	(4.0)	7.3	(4.8)	0.189
Logical Analysis	8.0	(3.2)	8.0	(2.6)	8.2	(5.1)	0.730
Information Seeking	11.7	(4.2)	12.0	(4.1)	10.4	(4.3)	0.004
Problem Solving	9.3	(2.9)	9.4	(2.8)	9.0	(3.0)	0.296
Affective Regulation	10.3	(3.6)	10.4	(3.7)	9.7	(3.3)	0.174
Emotional Discharge	6.4	(3.6)	6.4	(3.4)	6.0	(4.2)	0.407
Social Support							
Confidant Support	15.5	(7.0)	15.6	(6.9)	15.0	(7.2)	0.543
Affective Support	8.9	(4.3)	9.0	(4.3)	8.5	(4.4)	0.361

Table 4
Annual Mean Expenditure on Health and Social Services Utilization for
CBO-users and non-CBO users

	Total PHAs		CBO-Users		Non-CBO-users		p-values
	Mean (SD) (n=361)		Mean (SD) (n=290)		Mean (SD)		
Total Costs	20977.7	28989.0	22372.4	31429.7	15281.1	14233.1	0.048
Total Direct Costs	19362.8	28565.7	20685.5	31093.1	13960.2	12971.9	0.071
Hospital stay costs	2641.3	19374.9	3119.0	21530.7	689.9	3443.2	0.806
Other direct costs	16721.5	18337.0	17566.5	19378.3	13270.3	12801.4	0.048
Family physician	300.2	372.4	320.20	387.90	218.50	289.40	0.030
HIV/infectious diseases specialist	424.2	528.8	418.50	521.30	447.50	561.40	0.752
Physician specialist	590.2	992.9	618.30	1031.20	475.40	814.70	0.311
Emergency department	598.7	2846.4	664.20	3086.20	330.90	1501.30	0.152
Psychiatrist	109.7	349.3	115.80	356.00	84.90	321.70	0.469
Naturopath	68.2	352.0	84.90	391.10	0.00	0.00	0.032
Nurse Practitioner	18.1	87.7	16.30	91.20	25.40	71.70	0.033
Social Worker	355.2	1000.0	399.80	1082.60	172.90	511.90	0.143
Food bank (ASO, other)	153.3	427.7	184.10	467.20	27.70	141.30	0.002
Unpaid, voluntary community supports	1006.1	3992.0	1097.80	3790.70	631.60	4738.60	0.000
Outpatient laboratory tests	1071.7	1632.7	1078.40	1667.00	1044.10	1494.90	0.811
Medication	9444.4	9740.1	9580.60	9698.50	8893.70	9958.10	0.357
Total Out of Pocket Costs	1614.9	3747.5	1686.80	3735.80	1320.90	3807.20	0.026
Total Cash Transfer Costs	8718.2	8258.5	9216.60	8548.50	6682.70	6619.70	0.009
Ontario Disability Support Program	3675.1	4935.7	3949.00	5051.80	2556.20	4282.80	0.027
Total Other Income Sources	2027.6	9241.2	1794.00	8516.00	2981.70	11744.5	0.357

Table 5
Health Characteristics, Health Related Quality of Life, Coping Strategies and Supports, and Health and Social Services Utilization Costs significantly associated with Intensity of CBO-use

	CBO-Users										p-values
	All users		Low Intensity Users (1-10 times)		Modest Intensity Users (11-29 times)		Moderate Intensity Users (30-51 times)		High Intensity Users (52 times or more)		
	Mean (SD)		Mean (SD)		Mean (SD)		Mean (SD)		Mean (SD)		
Current Stage of Illness (KRS scale)	79.4	(16.4)	81	(13.5)	81.1	(13.0)	77.6	(16.2)	75.1	(19.4)	0.032
Health-Related Quality of Life											
Role function index score	38.3	(43.6)	38.6	(45.2)	40.4	(44.6)	34.8	(40.2)	28.4	(40.3)	0.041
Pain function index score	57.7	(25.9)	55.7	(25.2)	58.9	(23.3)	58.9	(26.1)	51.4	(26.4)	0.037
Health transition index score	57.5	(24.5)	49.6	(21.1)	57.2	(24.5)	62.3	(24.0)	62.5	(26.4)	0.008
Coping Strategies											
Active behavioural	22.6	(6.4)	22.3	(6.6)	22.1	(6.2)	22.8	(6.5)	24.5	(5.9)	0.029
Information seeking	11.7	(4.2)	11.5	(4.4)	11.3	(3.8)	12.2	(4.2)	12.8	(3.8)	0.006
Emotional Discharge	6.4	(3.6)	5.7	(3.1)	5.9	(2.9)	6.7	(3.6)	7.3	(3.6)	0.035
Annual mean expenditure on health and social services utilization (\$)											
Direct Costs											
Family physician care	300.2	(372.4)	250.6	(354.6)	315.6	(391.2)	349.5	(324.3)	360.2	(453.8)	0.030
Addictions counsellor	79.8	(538.2)	17.1	(143.4)	16.7	(141.4)	17.9	(146.6)	311.1	(1086.3)	0.000
Needle exchange program	2.0	(17.6)	0.0	(0.0)	0.0	(0.0)	1.1	(8.8)	7.1	(35.1)	0.030
Food bank	153.3	(427.7)	140.7	(366.7)	170.7	(370.8)	202.5	(452.8)	218.1	(614.8)	0.020
Unpaid/voluntary community supports	1006.1	(3992.0)	680.1	(1930.2)	1302.8	(5925.7)	951.4	(2946.8)	1397.6	(3173.1)	0.000
Out of Pocket Costs	1614.9	(3737.5)	1876.8	(2666.7)	1553.5	(2662.1)	2285.9	(6381.8)	1145.6	(1936.6)	0.060
Mileage costs	158.8	(1580.7)	154.3	(857.7)	93.3	(286.7)	5.4	(28.5)	22.9	(115.9)	0.050
Other transportation costs	213.3	(613.1)	238.5	(567.5)	189.6	(401.2)	259.6	(502.5)	219.7	(405.6)	0.000
Cash Transfer Costs	8718.2	(6258.5)	9110.2	(10782.3)	6829.8	(7001.9)	9080.9	(9319.2)	9764.6	(6935.1)	0.050
Ontario Disability Support Program	3675.1	(4935.7)	4005.0	(5512.0)	3732.9	(4862.7)	2866.0	(4361.0)	4988.5	(5214.5)	0.020