Systematic Review of the Effectiveness and Cost-Effectiveness of Permanent Supportive Housing and Income Support



Tim Aubry, Ph.D. School of Psychology University of Ottawa Europe Housing First Hub September 17, 2020





Centre for Research on Educational and Community Services



Centre de recherche sur les services éducatifs et communautaires



Development of Evidence Based Clinical Guidelines for Homeless, Vulnerably Housed and Persons with Lived Homelessness Experience





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Development of Evidence-Based Clinical Guidelines



GUIDELINE # VULNERABLE POPULATIONS CPD

Clinical guideline for homeless and vulnerably housed people, and people with lived homelessness experience

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CMAJ Podcasts: author interview at https://soundcloud.com/cmajpodcasts/190777-guide

See related article at www.cmai.ca/lookun/doi/10.1503/cmai.200199

omeless and vulnerably housed populations are heterogeneous¹ and continue to grow in numbers in urban and rural settings as forces of urbanization collide with gentrification and austerity policies.3 Collectively, they face dangerous living conditions and marginalization within health care systems.¹ However, providers can improve the health of people who are homeless or vulnerably housed, most powerfully by following evidence-based initial steps, and working with communities and adopting anti-oppressive practices.^{1,1,1}

Broadly speaking, "homelessness" encompasses all individuals without stable, permanent and acceptable housing, or lacking the immediate prospect, means and ability of acquiring it.4 Under such conditions, individuals and families face intersecting social mental and physical health risks that significantly increase morbidity and mortality.78 For example, people who are homeless and vulnerably housed experience a significantly higher prevalence of trauma, mental health conditions and substance use disorders than the general population.18 Canadian research reports that people who experience homelessness face life expectancies as low as 42 years for men and 52 years for women.7

aged, single men in large urban settings.¹⁰ Today, the epidemiol-medical home is "a family practice defined by its patients as the ogy has shifted to include higher proportions of women, youth, place they feel most comfortable presenting and discussing their Indigenous people (Box 1), immigrants, older adults and people personal and family health and medical concerns.*18 Medical from rural communities.^{33,34} For example, family homelessness care is "readily accessible, centred on the patients' needs, pro-(and therefore homelessness among dependent children and vided throughout every stage of life, and seamlessly integrated youth) is a substantial, yet hidden, part of the crisis.15 In 2014, of with other services in the health care system and the community" the estimated 235000 homeless people in Canada, 27.3% were (https://patientsmedicalhome.ca). Primary care providers are women, 18.7% were youth, 6% were recent immigrants or also well positioned to mobilize health promotion, disease premigrants, and a growing number were veterans and seniors.10 vention, diagnosis and treatment, and rehabilitation services.10

KEY POINTS

- Clinical assessment and care of homaless and uninerably house populations should include tailoring approaches to a person's gender, age, Indigenous heritage, ethnicity and history of trauma; and advocacy for comprehensive primary health care.
- · As initial steps in the care of homeless and vulnerably housed populations, permanent supportive housing is strongly recommended, and income assistance is also recommended
- · Case-management interventions, with access to psychiatric support, are recommended as an initial step to support or care and to address existing mental health, substance use and other morbidities.
- · Harm-reduction interventions, such as supervised con facilities, and access to pharmacologic agents for opioid use disorder, such as opicid agonist treatment, are recommended for people who use substances.

Practice navigators, peer-support workers and primary care providers are well placed to identify social causes of poor health A generation ago, homeless Canadians were largely middle-and provide orientation to patient medical homes.^{30,17} A patient's

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Formerly homeless, they're now advising doctors drafting Canada's street health guidelines

2017

UPCOMING WEBINAR!

ONTARIO HOUSING FIRST REGIONAL NETWORK COMMUNITY OF INTEREST'S WEBINAR ON HEALTH, HOMELESSNESS AND COVID-19

This webinar will look at:

- the common health issues faced by people who are homeless and the challenges associated with not having a primary care physician
- the recent Canadian Medical Association guidelines for physicians and health care workers working with people experiencing homelessness
- an example of partnerships between the health and housing sectors, highlighting the City of Windsor and public health's efforts to get everyone in shelters tested for COVID-19.

This webinar is for public health professionals, mental health and addictions stakeholders, and the health and housing sectors.

Presenters

- Dr. Stephen Hwang, Director, MAP Centre for Urban Health
 Solutions
- Dr. Kevin Pottie, Clinician Scientist, C.T. Lamont Primary Health Care Research Centre, Bruyère Research Institute
- Jennifer Tanner, Manager of Homelessness and Housing Support, City of Windsor

WEDNESDAY, SEPTEMBER 30, 2020 1PM-2:30PM EDT REGISTER HERE: <u>https://bit.ly/3hBJH95</u>

This webinar is presented the Ontario Housing First Regional Network Community of Interest (DHRN-CO). The OHFRN-Col is intended to assist communities across Ontario to develop, evaluate, and improve Housing First programs based on the Pathways model, which was tested, adapted, and shown to be effective in the k-Home/Chez So Demonstration Project.

This Col is supported by Evidence Exchange Network (EENet), which is part of the Provincial System Support Program (PSSP) at the Centre for Addiction and Mental Health. For more information, visi https://www.eenet.con/add/1257Heabout.

Evidence Review Team for Permanent Supportive Housing and Income Support

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Findings Our search identified 15508 citations, of which 72 articles were included for analysis (15 studies on permanent supportive husing access 41 publications, the studies on income interventions across 15 publications, or cost-effectiveness), Permanent supportive husing interventions increased long-term (see the studies) of the studies of the

Interpretation Permanent supportive housing and income assistance interventions were effective in reducing homelessness and achieving housing stability. Future research should focus on the long-term effects of housing and income interventions on physical and mestal health, subtance use, and quality-of-life outcomes.

Funding Inner City Health Associates.

approach.

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Articles

Services (Prof T Aubry PhD) artment of Medicine PTuovel MDL and School of **Goldemiology** and Public Health (KThavon PhD) University of Ottawa, Ott (G Bloch MD, T Abdalla BHSc) (5 You MD), and Contro for Addiction and Mental Health V Stavajapoulos MDL Family Practice, University of British Columbia, Vancouver CT Lamont Primary Health Car Research Centre, Bruyine Research institute, Ottawa ON Canada (A Saud O Magwood MPH O Alkhateeb MD Prof K Puttie MD, T Hannie C Mathew MSc) MUHC-McGB University Ocular Patholicov and Translational Research Laboratory, McGill University Montreal, QC, Canada IC Controllo MSch and Ottawa Hospital Research Institute Ottawa, ON, Canada (K Thavcen) Commondance h

Objective

Systematic review to evaluate the effectiveness and cost-effectiveness of permanent supportive housing and income assistance on the health and social wellbeing of individuals who are homeless or vulnerably housed

Review of PSH & Income Support: Research Methods

- Homeless, vulnerably housed, PLE of homelessness
- PSH & income interventions to address homelessness
- MEDLINE, Embase, CINAHL, PsycINFO, Epistemonikos, NIHR-HTA, NHS EED, DARE, and the CCRCT
- RCT, quasi-experimental studies, cost-effectiveness studies
- Studies up February 2020
- In accordance with Campbell Collaboration Protocol, PRISMA, and SWiM reporting guideline
- Assessment the certainty of the evidence using the Grading of Recommendations Assessment, Development, and Evaluation (GRADE) framework

Study Selection

- Canada & U.S.
- 15 studies (41 pubs) on PSH (scattered and single site)
- 10 studies (15 pubs) on income assistance
- 21 pubs on cost and costeffectiveness

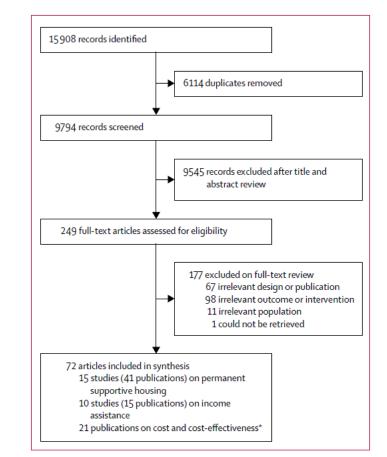
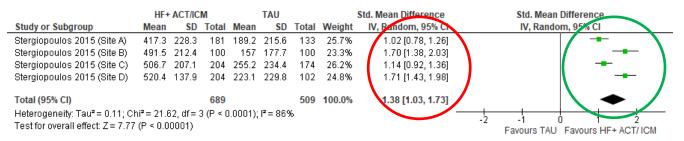


Figure 1: Study selection

*Five publications included in the cost-effectiveness analysis were also included in the analysis of permanent supportive housing or income assistance interventions.

Outcomes: Housing Stability

PSH vs TAU: number of days stably housed.



PSH vs TAU: # of participants in stable housing



Housing Stability at 6 Years (Stergiopoulos et al., 2019)

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Long-term effects of rent supplements and mental health support services on housing and health outcomes of homeless adults with mental illness: extension study of the At Home/Chez Soi randomised controlled trial

Vicky Stergiopoulos, Cilia Meija-Lancheros, Rosane Niseribaum, Ri Wang, James Lachaud, Patricia O'Campo, Stephen W Hwang

Background Housing First is increasingly implemented for homeless adults with mental illness in large urban (anot Provide 2019 centres, but little is known about its long-term effectiveness. The At Home/Chez Soi randomised controlled trial done 495-25 in five cities in Canada showed that Housing First improved housing stability and other select health outcomes. We Publiched Online October 7, 2019 extended the At Home/Chez Soi trial at the Toronto site to evaluate the long-term effects of the Housing First https://idoi.org/10.1000 intervention on housing and health outcomes of homeless adults with mental illness over 6 years.

Methods The At Home/Chez Soi Toronto study was a randomised, controlled trial done in Toronto (ON, Canada). Here, we present the results of an extension study done at the same site. Participants were homeless adults (aged a18 years) with a serious mental disorder with or without co-occurring substance use disorder. In phase 1, participants were stratified by level of need for mental health support services (high vs moderate), and randomly assigned (1:1) using adaptive randomisation procedures to Housing First with assertive community treatment (HF-ACT), Housing First with intensive case management (HF-ICM), or to treatment as usual (TAU). Participants with moderate support advalidational test beauch needs were further stratified by ethnoracial status. Considering the nature of the Housing First intervention, study participants and study personnel were not masked to group assignment. Phase 1 participants could choose to enrol in "I to Sting thousand the extension study (phase 2). The primary outcome was the rate of days stably housed per year analysed in the modified intention-to-treat population, which included all randomly assigned participants who had at least one assessment for the primary outcome. Participants contributed data to the study up to the point of their last interview. Multilevel multiple imputation was used to handle missing data. The trial was registered with ISRCTN, ISRCTN42520374

Findings Between Oct 1, 2009, and March 31, 2013, 575 individuals participated in phase 1 of the Toronto Site University of Toronto. At Home/Chez Soi study (197 [34%] participants with high support needs and 378 [66%] with moderate support **Toronto**, ON, Canada and needs). Of the 378 participants with moderate support needs, 204 were randomly assigned to receive the Centra for Addiction and HF intervention with ICM or with ethnoracial-specific ICM services (HF-ER-ICM; HF-ICM or HF-ER-ICM groups) and 174 were randomly assigned to TAU. Of the 197 participants with high support needs, 97 were randomly assigned to receive the HF intervention with ACT (HF-ACT treatment group) and 100 were randomly assigned to TAU group. Between Jan 1, 2014, and March 31, 2017, 414 (81%) of 575 phase 1 participants participated in the Dritchytangiopolas, Control extended phase 2 study. The median duration of follow-up was 5-4 years (IQR 2-1-5-9). Among phase 2 participants, Toronto, CN, M6j 1H4, Canada 141 had high support needs (79 participants in the HF-ACT group; 62 participants in the TAU group), and 273 had moderate support needs (160 participants in the HF-ICM or HF-ER-ICM group; 113 participants in the TAU group). 187 high support needs participants (93 participants in the HF-ACT group, 94 participants in the TAU group), and 361 moderate support needs participants (201 participants in the HF-ICM or HF-ER-ICM group, 160 participants in the TAU group) were included in the modified intention-to-treat analysis for the primary outcome. The number of days spent stably housed was significantly higher among participants in the HF-ACT and HR-ICM or HF-ER-ICM groups than participants in the TAU groups at all timepoints. For participants with moderate support needs, the rate ratio (RR) of days stably housed in the Housing First group, compared with TAU, was 2-40 (95% CI 2-03-2-83) in year 1, which decreased to 1-13 (1-01-1-26) in year 6. The RR of days stably housed for participants with high support needs, compared with TAU, was 3-02 (2:43-3-75) in year 1 and 1-42 (1-19-1-69) in year 6. In year 6, high support needs participants in the Housing First group spent 85-51% of days stably housed compared with 60-33% for the TAU group, and moderate needs participants in the Housing First group spent 88-16% of days stably housed compared with 78-22% for the TAU group.

Interpretation Rent supplements and mental health support services had an enduring positive effect on housing stability for homeless adults with mental illness in a large, resource-rich urban centre, with a larger impact on individuals with high support needs than moderate support needs.

MAP Centre for Linkan Health Solutions // Strepicpoulos Mil R Neverbaum PhD. Wang MMath, I Lachaud PM PO'Campo PND, SW Hwano ME institute. St Michael's Hospital Toronto, ON, Canada artment of Psychiatry entirecture). Division of seral Internal Medicine. nutreet of Madrice SW Hwang), and Dalla Lana School of Public Health

respondence to

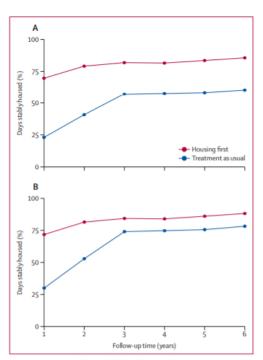


Figure 2: Percentage of days stably housed per year by treatment group and level of need for mental health services for At Home/Chez Soi participants at the Toronto site (n=548)

(A) High need participants. (B) Moderate need participants. A negative binomial generalised estimating equation model with log link was used to estimate rate of days stably housed per person-years. Each person-year was based on 360 days. Percentage of days stably housed was calculated by dividing the rate by 360 and multiplying by 100.

Health and Social Outcomes

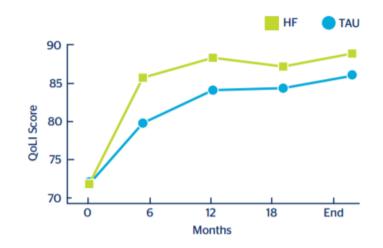
No effects on:

- > Mental health
- Substance use
- ➤ Employment
- ≻ Income

Mixed findings for:

- > Quality of life
- \succ Hospitalization

Quality of Life (Goering et al., 2014):



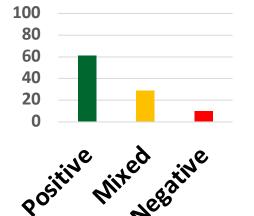


 Commission de la santé mentale du Canada

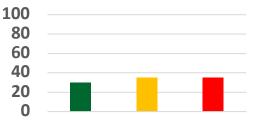
Life Changes: Comparison of HF & TAU (Nelson et al., 2015)

Life Changes Among Home	ess Persons With
Mental Illness: A Longitudin	
and Usual Treatment	at orady of froubing first
Geoffrey Nelson, Ph.D., Michelle Patlerson, Ph.D., Mariti Kirsi Darielle Nolin, Ph.D., Ornisopher Mult, Ph.D., Vicky Slegiog Timothy MacLeoll, M.A., Myra Pat, Ph.D., Paule N. Goering, I	toutos, M.D., M.H.Sc., Greg Townley, Ph.D.,
Objective: This study compared the life changes of home- less people with membrill lifess participating in Housing Test or treatment as usual and examined for tors related to various changes.	participants were four times more likely than Housing first participants to region negative changes. Ration related to positive changes included having statle good qualityhousing increased control over substance use, postke relationships
Helhods: Semistructured namalive interviews were con-	and social support, and valued social roles. Factors related to negative changes included precarious housing, negative social
ducted with 239 participants in five Canadian cities at baseline. 397 were interviewed opain at 10 months after nandom as- signment to Housing First N=250 or teasanet as usual Pix28), interviews were coded across 15 life domains, and	contacts, solition, heavy substance use, and hopolessness. Factor indiated to-mixed insultratichanges were similar to those for participants reporting negative changes but were less interess.
each participant was categorized as reporting positive, mixed- neutral, or negative changes. Housing First and twatment as	Conclusions: Housing First with intensive support was re-
sauk paticipants were compared with respect to change patients. Thermatic analysis was used to examine factors re- lated to various changes.	lated to more positive changes among homeless adults with mental illness aboos feer Ganadian olies. Those with poor hosaing or support, more common in treatment as usual, continued to struggle. These findings are released for services.
Results: The percentage of participants in Housing First reporting positive changes was more than double that for	and social change to benefit this population
pericipanis in treatment as usual, and treatment as usual	Psychiatric Services 2015; 66532-587; dos 201105/appiges.20400.201
Hamelessness among people with mental illness and ad-	Housing First have shown that it is effective in reduci
dictions has enserged as a significant health and social issue in North America (1,2). Variaus approaches have been de- veloped to support this population, including assertise com-	horselessness, emergency rores use, and hospitalization a increasing housing stability and consumer satisfaction (7, However, the effectiveness of Housing First in regard
munky treatment (ACT) (2) and intensive case management (RCM) (4). However, unless these programs are paired with	psychosocial outcomes, such as recovery and community terration, is less clear. Standardized measures may not as
permanent housing their effectiveness in reducing home- lessness and improving mental health and psychosocial out-	quarely capture such outcomes and thus they may not far assess the impacts of Housing First on this population.
comes is limited (5). Pathways to Housing developed Housing First, a nevel	Qualitative research may shed more light unprychosoci outcomes. In one qualitative study, 30 formerly honsele
approach for this population (6). In contrast to "twatment first" approaches, Housing First provides immediate access	people with mental linese reported positive personal as interpersonal change (for example, more independence as
to housing in the community with rent supplements and	improved or renewed relationships) and greater resour
with no requirements for a person's beasing readiness. Housing First combines ACT and FCM with permanent	acquisition (for example, employment) after obtaining per manent supportive boaring (9). Similarly, a qualitative sta-
housing, typically apartments, located throughout the com-	in which 12 formerly homeless people with mental illust
manity, rather than placing people in congregate housing with on-site staff. Recent reviews of controlled madies of	were interviewed during their first six months in permane summarize baseing resorted an overall theme of "racoi
192 Alexandrative street or a	Purchastic Services and June 2

Housing First



Treatment As Usual





Mantel Haenszel χ^2 =28.5, df=1, p=.0000001

Effectiveness of Income Assistance Interventions

- 1. Associated with significant short and long term improvements in housing stability outcomes.
- 2. Associated with improvements in reported quality of life, depression symptoms, and stress levels
- 3. Compensated work therapy and individual placement and support are associated with reduced homelessness and increased housing stability

Cost Effectiveness Studies on PSH

- PSH results in cost offsets but requires additional resources for implementation
- Latimer et al. (2019) \$56 per each additional day of stable housing for people with moderate level of needs (46% cost offset for HF + ICM)
- Latimer et al. (2020) \$42 per each additional day of stable housing for people with high level of needs (69% cost offset for HF + ACT)

Network Open.
Original Investigation Psychiatry Cost-effectiveness of Housing First Intervention With

Intensive Case Management Compared With Treatment as Usual for Homeless Adults With Mental Illness Secondary Analysis of a Randomized Clinical Trial

Eric A. Latimer, PhD; Daniel Robosin, MSc; Zhirong Cao, MSc; Angela Ly, MHA; Guido Powell, MSc; Carol E. Adais, PhD; Johander Sareen, MD; Julian M. Sorners, I

tract	Key Points
RTANCE In the At Home/Chez Soi trial for homeless individuals with mental illness, the	Question Is a Housing First intervention
RELANCE In the ACHOME/CHE2 Sol that for homeens individuals with mental illness, the ared site Housing First (HF) with intensive Case Management (ICM) intervention proved more	with Intensive Case Management for
In the sine measuring miss (PP) with internative case management (pc.in) intervention proved interv Eventhan treatment as usual (TALD.	homeless people with mental illness
UNIT DEBUT DE BARTER E AL MANAR (1.4%).	cast-effective compared with treatment
CTIVE To evaluate the cost effectiveness of the HF plus ICM intervention compared with TAU.	as usual?
	Findings in this economic evaluation
GN. SETTING. AND PARTICIPANTS This is an economic evaluation study of data from the At	study of data from the At Home/Chez
e/Chez Soi randomized clinical trial. From October 2009 through July 2011, 1198 individuals	Sol randomized clinical trial with TSB
randomized to the intervention (n = 689) or TAU (n = 509) and followed up for as long as 24	initially homeless participants, the
hs. Participants were recruited in the Canadian cities of Vancouver. Winnipeg. Toronto, and	incremental cost effectiveness ratio was
real. Participants with a current mental disorder who were homeless and had a moderate level	\$56.08 per additional day of stable
ed were included. Data were analyzed from 2013 through 2019, per protocol.	housing. At \$67 per day of stable
	housing, there was an 80% chance that
RVENTIONS Scattered-site HF (using rent supplements) with off-site ICM services was	the Housing First intervention with
ared with usual housing and support services in each city.	Intensive Case Management was cost-
	effective compared with treatment
OUTCOMES AND MEASURES The analysis was performed from the perspective of society.	as usual.
days of stable housing as the outcome. Service use was ascertained using questionnaires. Unit	Meaning Expanding access to Housing
were estimated in 20% Canadian dollars.	First with intensive Case Management
	appears to be warranted from an
RTS Of 1198 randomized individuals, 795 (66.4%) were men and 696 (S8.7%) were aged 30 to	economic point of view.
ars. Almost all (1960 participants, including 677 in the HF group and 483 in the TAU group)	
ibuted data to the economic analysis. Days of stable housing were higher by 140.34 days (95%	
8.14-153.31 days) in the HF group. The intervention cost \$14-496 per person per year; reductions	Supplemental content
its of other services brought the net cost down by 46% to \$7868 (95% CI, \$4409-\$11405).	Author affiliations and article information are
noremental cost-effectiveness ratio was \$56.08 (95% CI, \$29.55-\$84.78) per additional day of	Intedat the end of this article.
housing. In sensitivity analyses, adjusting for baseline differences using a regression based	
od, without altering the discount rate, caused the largest change in the incremental cost-	
tiveness ratio with an increase to \$60.18 (95% CI, \$35.27-\$86.95). At \$67 per day of stable	
ing, there was an 80% chance that HF was cost-effective compared with TAU. The cost-	
tiveness of HF appeared to be similar for all participants, although possibly less for those with a	
r number of previous psychiatric hospitalizations.	
Cost-Effectiveness of Housing First V	Vith Assertive
Community Treatment: Results From	the Canadian
t Home/Chez Soi Trial	
ic A. Latimer, Ph.D., Daniel Rabouin, M.Sc., Zhirong Cao, M.Sc., Angela Ly, M.H.A.	
to Distasio, Ph.D., Stephen W. Hwang, M.D., M.P.H., Julian M. Somers, Ph.D., A	
aig Mitton, Ph.D., Erica E. M. Moodie, Ph.D., Paula N. Goering, R.N., Ph.D., For	the At Home/Chez Soi Investigator

 The AI Home/Chez Soi Istal for homeless indin mental liness showed scattered-the Housing Hautrie Communy Frailmerk (Chris Iba more than treatment as usal. This study evaluated the treatment divenses of Housing First with ACT and treatment

reducing the net annual cost of the intervention to about reducing the net annual cost of the intervention to about cnd6.311 per person. The incremental cost-effectiveness ato was cnd94.173 per day of stable housing (95% confldence interval-Cas19-6-581.30). At up to Cas650 per day, Housing First Mar more than an BoS charace of being

the outcome Psychiatric Services in Advance (doi: 10.1176/lappi.ps.202000029)

significant minority of homeless people experience serious ental illness (I). Housing First, which provides immediate cess to subsidied housing together with support services, is proven the most effective approach to helping such

viduals access and maintain permanent beauing (2), vious analyses have reported significant cost offsets asated with the provision of Housing First (3), the At Home/Chez Soi trial compared outcomes of the

 attract-di-taring Form, in which participants
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HEGHLIGHTS In the At Home-Chez Soi Canadian trial of Housing First with assentie community treatment (ACT), about twothirds of the costs of the intervention were offset by savings in other costs. The next cost of the intervention per additional day of status because and the action of the intervention en-

lay are well within the range of the costs of many curently funded housing programs for people experiencing conteless that do not provide individualized and intensive enrices such as ACT.

participant sex, alcohol or drug abuse or dependence, level of functioning, prior hospitalizations, or recent arrest history.

Limitations of Research

- 1. Wide range of PSH programs have been studied that are not clearly described in cases
- 2. PSH comparison to a wide range of usual care
- 3. Narrative synthesis of non-housing outcomes
- 4. Published effectiveness studies are only from North America
- 5. Short period of follow-up (24 months or less) for all but one study
- 6. Small number of comprehensive costing studies

Future Directions for Research

- 1. Research on PSH with enriched community support with evidence-based interventions (e.g., SBCM, IDDT, IPS, Peer Support)
- 2. Comparison of PSH with different types and intensity of support (ACT vs. ICM vs. FACT)
- 3. Identification of characteristics of non-responders to HF in scattered site and single site PSH
- 4. Cost-benefit and cost-effectiveness of PSH programs with comprehensive costing methods
- 5. Development of fidelity measure for single site programs
- 6. Examination of outcomes using mixed methods



Thank You!

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Centre for Research on Educational and Community Services



Centre de recherche sur les services éducatifs et communautaires