Overview

Managed Alcohol Programs (MAPs) provide regulated doses of alcohol to residents in supportive accommodation to address seemingly intractable health and social problems experienced by people with alcohol dependence, use of non-beverage alcohol and unstable housing. The Station Street MAP was evaluated for housing stability, access and use of health care services, social functioning, harms and patterns of alcohol use and changes in health (see www.carbc.ca for a more detailed report).

Methods and Measures

A mixed method qualitative and quantitative approach including: in-depth surveys, liver function tests, physician assessments, daily alcohol administration and health records, and qualitative interviews with a small sample of people - seven participants and seven staff. The main purpose was to inform implementation of a multi-site national study of MAPs.

Improved Outcomes

- All participants maintained their housing and expressed high satisfaction with housing quality.
- Participants reported greater wellbeing and positive changes in their lives.
- Physician and participant ratings of mental health measures improved.
- Reduction in frequency and quantity of non-beverage alcohol consumption.

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Health and Social Functioning

Alcohol-Related Harms

that there was no clear reduction in the emergency room visits for these participants or the others.

Non-Beverage Alcohol Consumption

At baseline, four participants reported drinking non-V† † "І" `æ `æ" 'æ" 'æ" p' "øø† `æ" æ" æ" p' rubbing alcohol. Surveys and qualitative interviews both clearly showed that while some continued using non-beverage alcohol on the MAP, they did so at a lower level and less frequently. Figure 4 shows participants' reports of how frequently they used non-beverage alcohol at baseline, 3 and 6 month follow-up.

Total Alcohol Consumption

The participants consumed on average 16 to 18 standard drinks per day while in the program - including both MAP-administered and non-MAP drinks. However, this varied by individual and time. At baseline, participants self-reported an average of 15 drinks per day - most likely an underestimate of the actual consumption compared with staff reports of MAP-administrative drinks. Figure 5 shows the average number of drinks per day for all participants over monthly periods from the beginning of the MAP as recorded by the staff while administering the alcohol. A "MAP drink" is a drink administered by a MAP staff member according to the prescribed schedule. A "non-MAP" drink is alcohol a MAP participant obtains themselves outside of the program and self-report the next day to MAP staff - if they attended the lounge. The average number of non-MAP drinks declined from 12 † 'p" 'ø 'æt' æi · Đæ æ Éæ ·

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reinstatement of this pattern after a period of abstinence. At baseline, four participants were severely alcohol dependent, two were moderately dependent and one was mildly dependent according to SADQ scores. Figure 6 shows SADQ scores for participants at baseline, 3 and 6 months. After 3 months in the MAP, all participants reported fewer signs of alcohol dependence. However, at 6 months, two participants showed an increase in degree of dependence over baseline measures. Four other participants maintained their reductions in degree of dependence, and one showed no change from baseline.

to administer alcohol as well as designated space. Also, it was felt that there needed to be public education about the program to facilitate understanding of the needs and avoid misinterpretation in the wider community. However, at 1 Ét " pap" " " † Ø Ø † " p Ø É" at † † † several very positive media reports published about the program.

Discussion

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Challenges Implementing a MAP

ægt "É †† † oø† "V† † of MAP, they did discuss some issues that need to be addressed in the development and implementation of MAPs. Concerns were raised that not all participants " 'æ" † '† † øt `†p' É`øt . † † † . be included on the program and that stricter eligibility criteria may need to be applied; there were some who thought the dose of alcohol was too high or administered too frequently for particular individuals. These two ø † 'pø†` ''' øð ' øæ' '' ø'' ø†' pøð '†'' †p' deterioration in physical health on some indicators and suggest potential for chronic harms of alcohol use. MAPs appear to successfully reduce acute health and social problems and strategies related to reducing chronic harms are discussed below.

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Patterns of Risky Drinking	Heavy Episodic Drinking	Non-Beverage Alcohol (NBA) Consumption	Drinking in Unsafe Settings	High Volumes of Alcohol Consumed Over the Long-Term
Potential harms	Violence, injuries, ø øð tø t unstable housing, legal and social problems	Exacerbate chronic diseases, higher ethanol consumption, poisoning	Violence, injuries, Ɇ† ØÐ V† with police, intoxication from hurried consumption	Liver cirrhosis, cancers, other chronic diseases, dependence, housing and social problems, øø " 'p† `ø `ø
Potential MAP V† †	Smooth drinking pattern, fewer injuries †ø † †† † housing, improved relationships	Reduced consumption of NBA	Shelter from cold, protected supply of alcohol, personal safety, food	Housing security, reduced consumption, improved nutrition
Potential MAP risks	Higher blood alcohol concentrations if non-MAP consumption continues	Increased ethanol consumption if MAP drinks are additive	Less exercise, unhealthy weight gain for some	Fewer abstinent days may increase liver disease risk
Remedial Strategies	1. Protocols to manage non-MAP drinking	 Protocols for non-MAP drinking Ensure no increase in ethanol consumption 	 Incorporate leisure and physical activities Nutrition advice 	 Strict eligibility criteria No increase in amount or frequency of use Medication to assist with regular days off Offer detox referrals
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of intoxication for most participants after joining the program. Three participants showed some reduction in alcohol consumption after 6 months, three showing an increase (in two cases quite marked) and in one case there was no change. As such, a major objective of the program, namely harm reduction, appears to have been met for the majority of participants.

* D opt at D " OD o`" Vt t at t are some areas of potential concern (see Figure 7). In particular, the deterioration in physical health was suggested by results of a well validated and widely used self-report scale (the SF-12) and also liver function tests. One participant with extremely raised liver function test

References Canadian Homelessness Research Network. (2012).