Do Managed Alcohol Programs Prevent Harms of Alcohol Dependence and Homelessness?

Bernie Pauly RN, Ph.D, Tim Stockwell, Ph.D and the National MAP Research Team Centre for Addictions Research of BC (CARBC)





Funded by:













Prevalence of Problems related to Alcohol Use

- Harms of use and alcohol use disorders are a problem worldwide.
- Among homeless male populations, prevalence of severe alcohol dependence is estimated to be 8-58% (Fazel et al, 2014)
- Little info on prevalence among women experiencing homelessness.



Harms of Alcohol

Acute

Injuries
Poisoning
Acute illness

Chronic

Liver disease
Cancers
Strokes
Gastrointestinal
disease

Social

Problems with:
Housing
Finances
Relationships
Law
Workplace



Alcohol Dependence and Homelessness

Shelters and housing programs differ in how they approach alcohol use:

Abstinence-based or "dry" shelters/housing: no drinking is allowed

Tolerant shelters/housing:

allow drinking but do not manage it (e.g. Collins, Larimer)

Managed alcohol programs:

shelters/housing that actively manage and provide alcohol for some people



Freezing Deaths Inquiry 1st MAP





Research Purpose

The purpose of our research is to rigorously evaluate MAPs in Canada and generate insights into the implementation of MAPs with a focus on outcomes and process.

Research Objectives

Outcomes

To establish whether entry into a MAP contributes to significant...

- **Objective 1:** improvements in the health, longevity and well-being of participants
- Objective 2: changes in service use (reductions in the use of emergency, hospital, police and emergency housing services)
- Objective 3: changes in substance use (less hazardous patterns of alcohol use)

Research Objectives (cont.)

Process

 Objective 4: To inform the development of program and policy recommendations for MAPs by identifying participant and program characteristics that are most likely to predict positive outcomes and critically examine practical, ethical and legal issues as part of the implementation of MAPs.



Evaluating Outcomes and Process

Outcomes

Outcomes

Quantitative Surveys Secondary Administrative Data

Process

Qualitative Interviews Policy and Protocol Analysis

Sample size and response rate

		Recruited	Selected for	6 month	12 month
Site	Cohort	@ Baseline	Follow Up	response rate	response rate
THUNDER BAY					
	MAP	24	14	85.7%	38.5%
	Controls	28	17	56.3%	28.6%
VANCOUVER					
	MAP	7	1	100.0%	
	Controls	8	2	100.0%	
HAMILTON					
	MAP	21	13	92.3%	100.0%
	Controls	28	21	100.0%	100.0%
OTTAWA					
	MAP	66	24	86.4%	91.7%
	Controls	63	28	70.4%	81.5%
TORONTO					
	MAP	59	20	100.0%	100.0%
	Controls	60	35	48.6%	63.3%
TOTAL					
	MAP	177	72	91.0%	78.0%
	Controls	187	103	67.0%	67.1%

Overview of MAP's in Canada

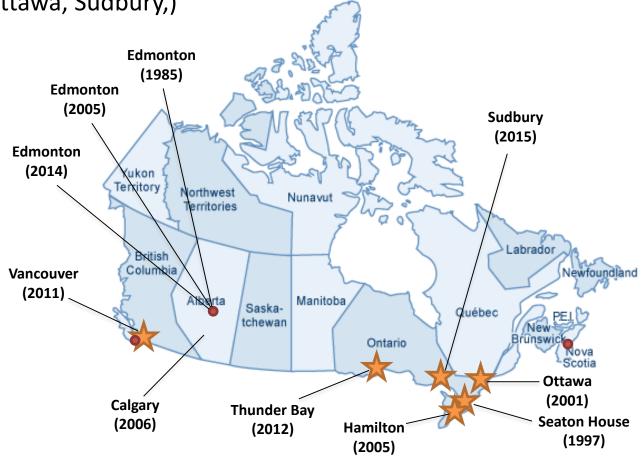
• 14 MAP Programs (Vancouver, Calgary, Edmonton, Thunder Bay,

Toronto, Hamilton, Ottawa, Sudbury,)



National Study: 7 Sites

Other MAP sites



What is a MAP?

A harm reduction program that offers regularly dispensed and/or administered sources of beverage alcohol alongside accommodation and/or other programming to prevent alcohol related harms by reducing consumption of non beverage alcohol, binge drinking, and public intoxication.









How do MAP's work?







Alcohol Intervention:

Daily (3-4 beers q 3-4 hours)

Every 60-90 minutes: 5-6 ounces of white or red wine

Maximum 11-12 doses per day

Housing intervention

Day Programs with Housing support Supportive Housing Transitional Housing Emergency Shelter Health and Well-Being: Social and Cultural Programming:

Primary Care

Food Programs

Indigenous

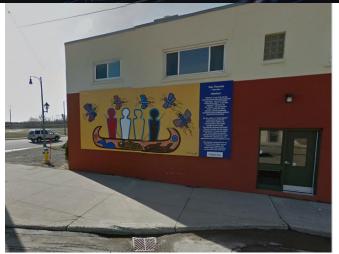
Life skills

Recreational



Increasing Housing Stability





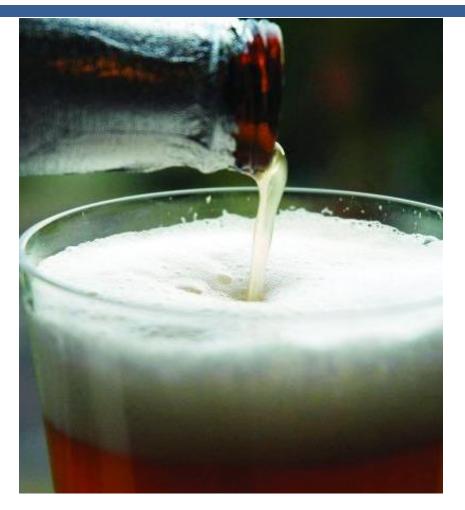
- Participants in both pilots retained their housing (all had been homeless)
- Controls in TB remained homeless
- Increased safety

Pauly et al., 2015

Stockwell et al, 2013

Reducing Alcohol Related Harms

Participation in MAP resulted in fewer acute and social harms (esp safety, legal, financial and withdrawal).



SOURCES: Stockwell et al., 2013; Vallance et al., 2016, Pauly et al., 2015

University Centre for Addictions

Controls (n=189)

New MAPs (n=65)

Long-term MAPs

(n=109)

participants experience fewer					
	physic	cal ha	rms		
(Stockv	vell et	al., un	der rev	view)	

43%

25%**

15%***

Physical health Learning **Passed** Sample Assaults **Seizures** difficulty out

33%

13%*

18%**

33%

35%

15%*

15%

11%

2%**

62%

34%*

68%

45%**

29%***

40%

31%*

10%***

29%

12%

36%

22%*

harms					
Sample	Social	Finance	Legal	Work	Housing

43%

25%**

15%***

Sample Social

Controls (n=189)

New MAPs (n=65)

Long-term MAPs

(n=109)

Consumption of Alconoi: Pilot Studies

- Reduced use of Non Beverage Alcohol
- Pilot 1: Alcohol consumption up for some by 6 mos
 - possibly due to outside in warmer months
 - Liver function deteriorated for most by 6 mos
- Pilot 2: Alcohol consumption stable or reduced
 - Policies re being onsite prior to dosing
 - Liver Function Improved

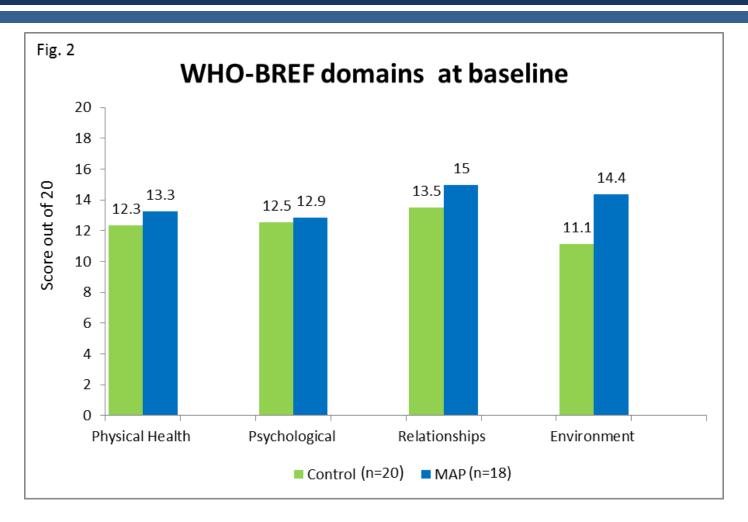
Source: Stockwell et al., 2013, Pauly, 2015,



MAP Participants drink more days but drink less overall and less NBA

Sample	Mean # Drink Days/30	Mean # drinks per day	NBA drink days/30	NBA drinks per day
Controls (n=189)	23	22	3.78	5.8
New MAPs (n=65)	27*	20	6.5	9.4
Long-term MAPs (n=109)	29***	15***	1.5*	3.0*

Improving Quality of Life: Safety



Source: Pauly et al, 2016, Finding Safety



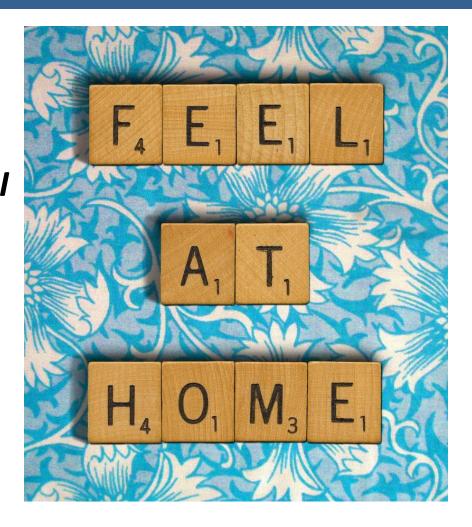
'Finding Safety'

"You feel safe, you feel like you've got a warm place to stay, and some home. You're not outside sleeping and wondering what to eat next." (TB MAP Participant)

MAP is safer than the streets, jails or shelters (Pauly et al, 2016, Finding Safety)

Family, Home and Hope

But this program ... has given me hope and has allowed me to really think what I wanna do with the rest of my life. And because I was stuck, not stuck, I was I guess you could say rock bottom, going home couldn't get me out of that rock bottom that I was in. But since coming here... I know there's a horizon waiting for me. (TB Participant) Pauly et al., 2016)



Research of BC Resear



43% fewer police contacts and 33% Less Time in Custody



47% fewer hospital Admissions and 70% Decrease in Detox Use



mouthwash just to try and feel – get myself to feel better [...] I was in and out of jail. Ever since I've moved here, I haven't even had any police contact.

MAP Participant



Reducing Economic Costs

Table ES3: Total annual cost savings after accounting for societal cost of homelessness				
Comparison	Savings (\$)	Savings per dollar invested (\$)		
MAP participants while in MAP and prior to program entry	2,619	1.09		
MAP participants while in MAP and control group	6,284	1.21		

This means a savings of 1.09 to 1.21 for every dollar invested in MAP

SOURCE: Hammond, Gagne, Pauly & Stockwell, 2016. A Cost Benefit Analysis of a Canadian Managed Alcohol Program. CARBC

Limitations

- Entirely self report data but higher levels of consumption than from MAP program records
- No randomization to MAP versus control

No longitudinal analysis – yet

 Attrition from MAP may select out heaviest drinkers – but very stable group with over 90% follow up at 6 months

Conclusions

Enrolling in and staying on a MAP is associated with:

- a safer pattern of consumption: less NBA, lower daily quantities, safer setting than the street
- with drinking on more days per month
- with significantly fewer self-reported health and social problems from their drinking

Future analyses will focus on longitudinal outcomes including chronic harms, police contacts, ER presentations and mortality to see if these associations are confirmed

Recommendations:

- Clear eligibility criteria focusing on acute harms & severity of dependence
- Monitoring of chronic harms of alcohol use part of ongoing clinical care (e.g., liver function tests)
- Potential risks from continuous high-level alcohol consumption fully explained to participants
- Alcohol admin tailored so neither use frequency or amount increases
- Protocols to manage non-MAP consumption
- Opportunities for both short/longer term abstinence available on demand

AOD monitoring project Managed alcohol

All active projects

programs

Archived projects



Managed Alcohol Programs (MAPs)

CARBC is leading a national study of Managed Alcohol Programs in Canada. This project will rigourously evaluate MAPs in Canada and generate insights into their implementation and effectiveness. The results of this research will be used to reduce unintended negative consequences of MAPs and inform the development of program and policy recommendations.



Click for an Overview of MAP sites in Canada (pdf)

MAP Project Resources

- + About MAPs and this project
- MAP community of practice

News Events

- Scottish Courts Back Minimum Unit Pricing for Alcohol with CARBC input
- Cecilia Benoit receives Governor General Award
- No Vacancy: Affordability & Homelessness in Vancouver
- CARBC is proud to cosponsor a screening of the film "Us and Them"
- CARBC Bulletin 16: CARBC's recommendations on marijuana legalization and regulation in Canada

More news

Join the conversation

[f ▶ Ø D ▶ Ø ••





+ Twitter feed

+ Media contact

bit.ly/296LRuK (via carbc.ca)



National Research Team

Researchers

Bernie Pauly, NPI, Uvic
Tim Stockwell, Co-PI, UVic
Clifton Chow, Research Lead
Kate Vallance, Research Coord
Ashley Wettlaufer, Research Coord
Ari Franklin, RA
Chris Pauley, RA

Josh Evans, Co-I, Athabasca U
Colin van Zoost, Co-I, Dahlhousie
Dyanne Semogas, Co-I, McMaster
Jamie Muckle, Co-I, Ottawa
Erin Gray, Co-I, Lakehead U.
Patty Hajdu, Co-I, Thunder Bay
Thomislav Svoboda, Co-I, U of T
Norman Giesbrecht, Co-I, CAMH
Vicky Stergiopoulos, Co-I, U of T
Ron Joe, Co-I, UBC

Jinhui Zhao, Co-I, UVic

Alexis Crabtree, Co-I, UBC

Knowledge Users

Denise DePape, PKU, BC MOH
Patti Melanson, Halifax
Wendy Muckle, Ottawa
Clare Hacksell, Toronto/Vancouver
Karen Smith, Toronto
Liz Evans, Vancouver
Siavash Jafari, VCH, Vancouver
Manik Saini, BC MOH
Joe Power, Island H, Victoria
Irene Haig Gidora, VCAS, Victoria



National Research Team

Collaborators

Rachelle Sender, Hamilton

Dean Waterfield, Hamilton

Heather Cooke, Kamloops

Nancy Campbell, Lethbridge

Jeff Turnbull, Ottawa Inner City Health

Anabella Wainberg, City of Toronto

Anne Bowlby, Toronto

Tom Henderson, Toronto

Rolando Barrios, Vancouver

EIDGE, Eastside Illicit Drinkers Group for

Education – Brittany Graham and Ron Kheul

Kathy Stinson, VCAS, Victoria

Trevor Corneil, IH

Mike O'Shea, Sault Ste. Marie

Jen Driscoll, Cranbrook

Dean Nicholson, Cranbrook

Ashley van Ryn, Lethbridge

Shawn Yoder, Toronto

Tracey Thompson, Victoria

Nichole Riese, Winnepeg

Jonathan Chick, Edinburgh

John Saunders, University of Sydney

Katie Keating, Toronto

Thank You!



Centre for Addictions Research of BC



website: carbc.ca email: carbc@uvic.ca Blog: oac.uvic.ca/carbc





