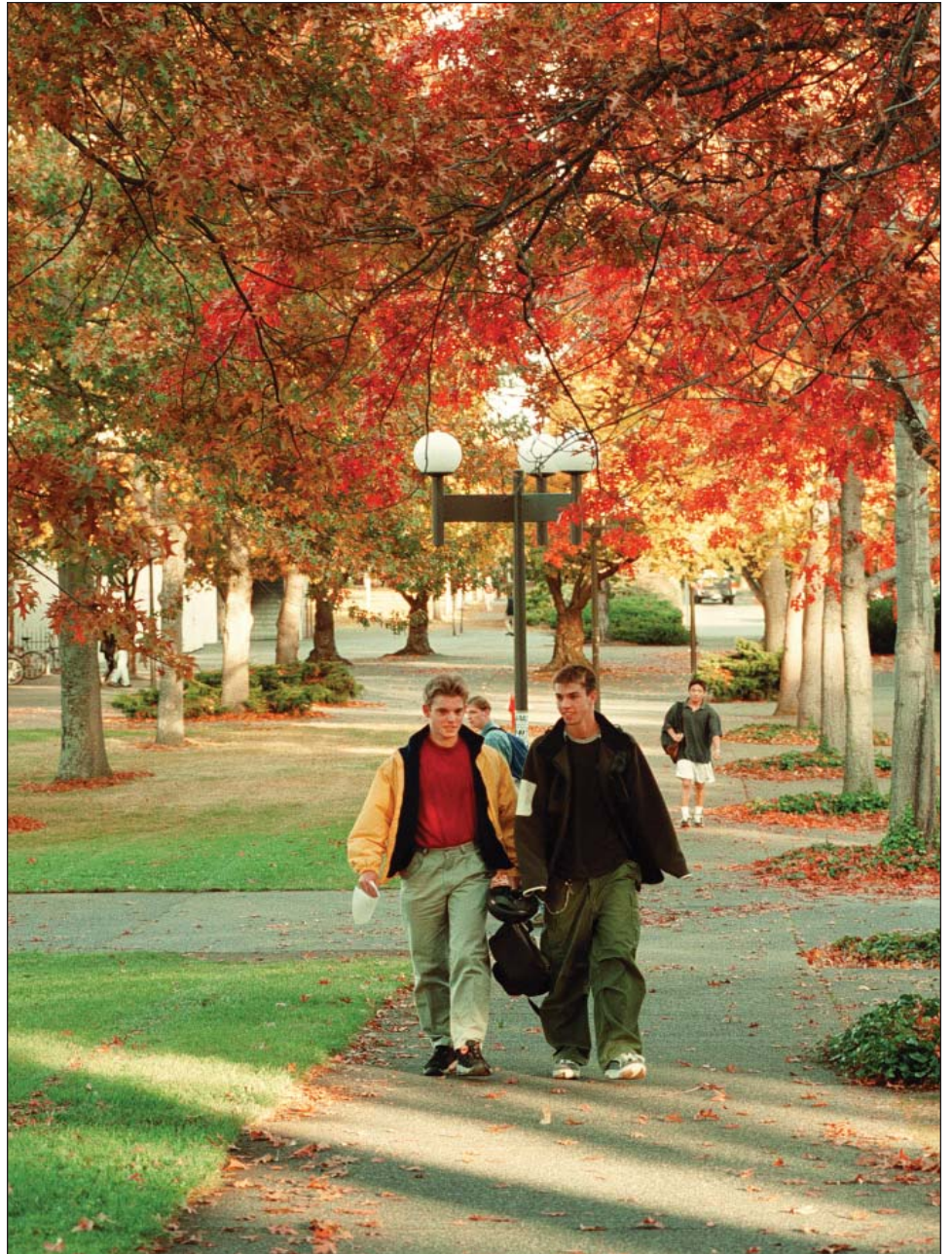




University
of Victoria

Centre for
**ADDICTIONS
RESEARCH** OF BC



Annual Report
April 1, 2007–March 31, 2008

The Centre for Addictions Research of BC (CARBC) is an official research centre at the University of Victoria, supported by a partnership with other post-secondary institutions in the province.

Since its inception in 2003, CARBC has developed relationships with a large network of addictions-related agencies in BC. An independent research centre, CARBC sits at arms length from government while working on shared concerns with multiple government departments, including health, police, education and liquor licensing.

CARBC Strategic Plan 2006–10

Our first strategic plan was approved by the University of Victoria Senate on November 4, 2005, and by the University's Board of Governors on November 28, 2005, to accord research centre status to the Centre for Addictions Research of BC for a five-year term starting on January 1, 2006. The plan outlines four key result areas, which we will be using in this annual report to report our progress using available performance indicators.

Our Mission

To create an internationally recognized centre, distributed across BC, that is dedicated to research and knowledge exchange on substance use, harm reduction, and addiction.

Our Values

- Collaborative relationships
- Independent research
- Ethics, social equity, and justice
- Reducing risk and increasing protection
- Harm reduction
- Informed public debate

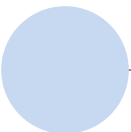
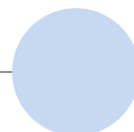


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The creation of CARBC was first recommended in 2001 by a task group consisting of health practitioners, community partners, and government officials who were appointed by the BC government to make recommendations on the future of addictions services. In response to the task group's report, the government created and resourced the BC Addictions Foundation (BCAF) with a mandate to create a research centre. In 2003, the BCAF entered into an agreement with the University of Victoria to provide leadership for the centre. In 2005, following the development of a detailed strategic plan, CARBC became officially recognized as a province-wide addictions research organization.



Message from the Advisory Board Chair

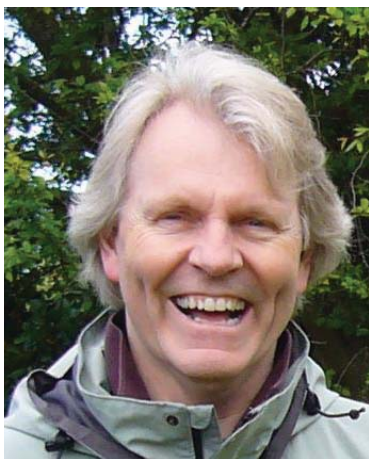
I am pleased once again to introduce the annual report of the Centre for Addictions Research of BC. You will find in this latest account of our activities detailed information on each of the Centre's key results areas: building capacity, conducting research, disseminating research findings, and improving public policy and practice.

The Centre, with its network of dedicated staff, expert researchers and invaluable community partners, had another outstanding year of achievements and results. Among the highlights, I wish to mention the following:

- augmented income for both research and knowledge exchange
- greater number of graduate students supervised by CARBC faculty (who have been successful in applying for external scholarships)
- increased peer-reviewed publications (43 this year compared with 35 last year)
- a high level of interest in our work by local, national and international media
- two successful international conferences hosted by the Centre, one in Victoria and one in Vancouver (for the United Nations no less!)

The ultimate aim of all this good work is, of course, to make a difference in public policies and social practices. In this respect, work by members of the Centre yielded important tangible impacts on policy processes this year. One outcome was the BC Select Standing Committee on Finance and Government Services accepting a CARBC submission to adjust provincial alcohol mark-ups according to alcohol content. Another impact involved the Vancouver Island Health Authority, along with some other Canadian health authorities, adopting the distribution of safer crack use pipes to minimize the risk of spreading hepatitis C among users.

As we approach general elections both provincially and nationally, the evidence-based work of CARBC is essential to inform public debates on pressing social issues.



*Michael J. Prince, PhD
Lansdowne Professor of Social Policy
University of Victoria
Chair, Advisory Board*

Message from the Director

Welcome to the 2007–08 Annual Report of the Centre for Addictions Research of BC. This report provides an overview of our activities in this third year of our first five-year term as an approved University of Victoria research centre.

The year has seen a steady increase in our capacity to conduct high-quality research and facilitate knowledge exchange. We have also seen increases in productivity as well as some encouraging tangible impacts on alcohol and other drug policy. During the year we won the opportunity to host two significant international meetings here in BC with support from national and international funding bodies.

More than 40 research and knowledge exchange staff members were employed at CARBC during 2007–08. We were extremely fortunate to recruit not only promising young talent but also highly experienced and well-qualified people such as Dr. Gerald Thomas (senior policy analyst) and Bette Reimer (information scientist). It has also been exciting to witness a growing presence of excellent graduate students, from a range of departments and disciplines, who are not only involved in our work but also succeeding in their academic studies.

We saw a steady increase in external research funding divided almost equally between grants obtained from funding competitions and research contracts. In relation to the latter, we have sustained and strengthened our relationships with key provincial and federal government bodies such as BC Mental Health and Addiction Services, BC Ministry of Health and Health Canada. We also struck a balance between publishing peer-reviewed research (some in high impact journals such as *The Lancet* and others in in-house print and web-based publications) and policy advice reports on a range of current issues for government agencies. I believe it is essential we strive to maintain these balances to help ensure our work is both of high-quality and relevant to practical and policy issues of the day.

A substantial number of our projects are conducted in close collaboration with other researchers and knowledge exchange experts from a range of BC universities as well as collaborating centres elsewhere in Canada and overseas. Our strong connection to the BC Mental Health and Addictions Research Network further ensures our work supports and complements the overall research effort in BC to improve our understanding and policy responses the area in this difficult area. I would like to express my sincere thanks to all our funding and research partners in BC and beyond who have supported our work during the past year—as well as to our hard-working and excellent staff.

Tim Stockwell, PhD
Director, CARBC



Our people and partners

Staff at the Research and Administration Office (University of Victoria)

Dr. Tim Stockwell—Director
Dr. Scott Macdonald—Assistant Director and Director of Epidemiology and Monitoring Unit
Dr. Benedikt Fischer—Director of Illicit Drugs, Public Health and Policy Unit
Dr. John F. Anderson—Senior Research Fellow
Ms. Christiane Allard—Research Assistant
Ms. Angelle Brown—Secretary/Assistant to Dr. Stockwell
Ms. Tierra Evans—Workstudy Student
Ms. Katharine Fisher—Research Associate
Ms. Rita Fromholt—Administrator
Ms. Jude Gittins—Research Associate
Mr. Andrew Ivsins—Research Assistant
Dr. Mikael Jansson—Research Associate
Ms. Kate Kalousek—Research Assistant
Ms. Sari Lloyd—Research Assistant
Ms. Lorissa Martens—Research Associate
Mr. Warren Michelow—Research Associate
Dr. Eugenia Oviedo-Joekes—Visiting Research Fellow
Ms. Basia Pakula—Research Associate
Mr. Ajay Puri—Research Associate
Ms. Katherine Rudzinski—Research Assistant
Mr. David Segal—Research Assistant
Ms. Richa Sharma—Research Assistant
Ms. Jen Theil—Receptionist/Administrative Assistant
Ms. Sana Zehra—Workstudy Student
Mr. Jinhui Zhao—Data Analyst

Staff at the Communication & Resource Unit (Vancouver)

Mr. Dan Reist—Director of Communication and Resource Unit
Ms. Jennifer Bond—Administrator
Ms. Rielle Capler—Research Assistant
Ms. Eugenia Didenko—Co-op Research Assistant
Ms. Raluca Dogaru—Co-op Research Assistant
Mr. Laverne Douglas—IT Specialist
Dr. Tim Dyck—Research Associate
Mr. Ian Kirkpatrick—Stakeholder Relations Officer
Ms. Nicole Pankratz—Publications Officer
Ms. Bette Reimer—Research Associate
Ms. Lu Ripley—Research Associate
Ms. Deborah Solk—Research Associate
Ms. Evelyn Souza—Information Officer
Ms. Cathy Spence—Assistant to Mr. Dan Reist
Dr. Gerald Thomas—Research Associate

Site Directors

Dr. Cindy Hardy—University of Northern British Columbia, Psychology
Dr. Reid Webster—Thompson Rivers University, Psychology/Centre for Excellence in Addictions Research
Dr. Ray Corrado (until June 2007)—Simon Fraser University, Criminology



Advisory Board

Dr. Micheal Prince, Chair

Lansdowne Professor of Social Policy, University of Victoria

Dr. Howard Brunt

Vice President Research, University of Victoria

Dr. Elliot Goldner

Professor, Faculty of Health Sciences, Simon Fraser University

Mr. Pat Griffin

Executive Director, Victoria Youth Empowerment Society

Ms. Jocelyn Harder

Regional Addictions Advocacy Society

Dr. Colin Jones

Assistant Vice President Research, Simon Fraser University

Mr. Edgar F. Kaiser Jr.

Chair & CEO, Kaiser Foundation

Dr. Perry Kendall

Provincial Health Officer, Ministry of Health Services

Mr. Philippe Lucas

Director, Vancouver Island Compassion Society

Dr. G. Alan Marlatt

Director, Addictive Behaviours Research Centre, University of Washington

Mr. Bill Naughton

Acting Chief of Police, Victoria Police Department

Ms. Jody Paterson

Journalist

Dr. Eric Single

Sr. Associate and Epidemiologist, Canadian Centre on Substance Abuse

Dr. Patrick Smith

Senior Advisor, BC Mental Health and Addictions, Provincial Health Services Authority

Dr. Richard Vedan

Director, First Nations House of Learning, University of British Columbia

Research Fellows

Dr. Gordon Barnes

Professor, School of Child and Youth Care, University of Victoria

Dr. Susan Boyd

Associate Professor, Studies in Policy and Practice, University of Victoria

Dr. Jeff Brubacher

Emergency Physician and Researcher, Vancouver General Hospital

Dr. Jane Buxton

Physician Epidemiologist, BC Centre for Disease Control and Assistant Professor, Health Care and Epidemiology, University of BC

Dr. Cameron Duff

Research Lead, Youth Addiction Services, Vancouver Coastal Health and Clinical Assistant Professor, Department of Health Care and Epidemiology, University of BC

Dr. Bonnie Leadbeater

Director, Centre for Youth and Society, University of Victoria

Dr. Timothy Pelton

Assistant Professor, Department of Curriculum and Instruction, University of Victoria

Dr. Eric Roth

Professor, Department of Anthropology, University of Victoria

Research Affiliates

Dr. David Brown

Research Scientist and Senior Project Manager, Mental Health and Addictions Services, Provincial Health Services Authority

Mr. Dean Nicholson

Administrator/Counsellor, East Kootenay Addiction Services

Dr. Erica Woodin

Assistant Professor, Department of Psychology, University of Victoria

Graduate Students

Ms. Kristina Brache—Department of Psychology, University of Victoria

Ms. Michelle Coghlan—Department of Sociology, University of Victoria

Ms. Kara Murray—Department of Psychology, University of Victoria

Mr. Andrew Ivsins—Department of Sociology, University of Victoria

Mr. Philippe Lucas—Studies in Policy and Practice, University of Victoria

Mr. Warren Michelow—Department of Health Care and Epidemiology, University of BC

Collaborating Centres

British Columbia:

- Centre for Applied Research in Mental Health and Addiction, Simon Fraser University
- Centre for Social Responsibility, Simon Fraser University
- National Institute for Research in Sustainable Community Development, Kwantlen University College

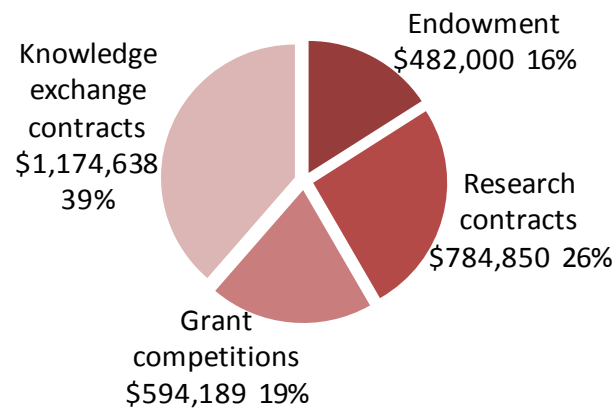
Other Parts of Canada:

- Canadian Centre on Substance Abuse, Ottawa
- Centre for Addiction and Mental Health, Public Health and Regulatory Policy Division, Toronto

International:

- Addictive Behavior Research Centre, University of Washington, Seattle, WA, USA
- Alcohol and Drug Abuse Research Unit, Medical Research Council, Cape Town, South Africa
- Alcohol Research Group, National Alcohol Research Centre, Berkeley, CA, USA
- Prevention Research Centre, Pacific Institute for Research and Evaluation, Berkeley, CA, USA
- National Drug Research Institute, Curtin University, Perth, W. A., Australia.

CARBC revenue summary 2007–08



Key Results Area 1

“To build research infrastructure and capacity across BC for the conduct of research that will increase understanding and support more effective responses to substance use.”

Highlights

Throughout the year there was continual growth in research capacity within CARBC, as well as substantial progress in the building of collaborative research programs with researchers and research centres across BC.

External research funding from all sources increased from \$1.2m in 2006–07 to over \$3m in 2007–08. This growth in capacity can be attributed to (i) the success of CARBC Research Fellow Dr. Eric Roth as Co-PI on a Canadian Institutes of Health Research (CIHR) new emerging team grant concerned with HIV prevention, (ii) the success of Dr. Benedikt Fischer in securing a prestigious CIHR Chair in Applied Public Health, and (iii) continuing progress in the development of a multisite collaborative project to build a comprehensive alcohol and other drug monitoring system in British Columbia as a pilot for Canada.

Also of great significance was a proposal under the leadership of Dr. Scott Macdonald to better understand the patterns and consequences of cocaine and alcohol use among substance abuse and treatment clients. The proposal was ranked first out of 47 applications to a CIHR funding round. Finally, Dr. John Anderson was successful in attracting external funds to (i) develop proposals collaboratively with BC First Nations communities regarding best practices in responding to substance misuse, and (ii) evaluate the implementation of brief interventions by general practitioners for alcohol and depression.

CARBC Strategic Initiatives—Infrastructure Support provided to other BC campuses

University of BC—Matching funds provided in partnership with BC Mental Health and Addictions Research Network for CIHR doctoral research award for Bohdan Nosyk to develop an empirical test of rational polydrug addiction, \$3,665.

University of BC—Matching funds provided in partnership with BC Mental Health and Addictions Research Network for a research seed grant given to Dr. Jeff Brubacher to conduct a study involving driving under the influence of drugs, \$3,750.

Kwantlen University College—Community program evaluation support, \$10,000.

University of Northern BC—Graduate student support for Lucy Chen to research safe drinking levels for seniors, \$5,000, and Erica Clarke to examine school-based intervention strategies for children with FASD, \$5,000.

University of BC—MITACS graduate student support for Warren Michelow to support research on substance use at BC music festivals, \$7,500.

Successful applications to research funding competitions

Media, methamphetamine and marijuana grow-op project. Boyd, S. (PI). Social Sciences and Humanities Research Council of Canada, \$78,261 from 2007–10.

Community-based mental health and addiction research collaboration with Aboriginal communities. Anderson, J. F. (PI). BC Mental Health and Addictions Research Network, \$3,500 from April 2007 to December 2007.

Establishing matching fund grant (in support of Senior Scholar Investigator Award). Fischer, B. (PI). Michael Smith Foundation for Health Research, \$70,421 from July 2007 to June 2008.

Collaborative community action research grant. Anderson, J. F. (PI). Part of Investigative Team Grant, Michael Smith Foundation for Health Research, \$25,000 from October 2007 to June 2008.

Development of an interdisciplinary graduate course in 'addiction studies.' Fischer, B. (PI). BC Mental Health and Addiction Research Network, Seed/Development Grant, \$7,500 from December 2007 to June 2008.

Kettil Bruun Society Symposium on Social and Epidemiological Research on Alcohol. Macdonald, S. (PI). Social Sciences and Humanities Research Council, \$13,000 from January 2008 to June 2008.

Narrowing the gap between men who have sex with men aware and unaware of their HIV positive status: The need for enhanced prevention for persons with acute infection. Rekart, M. (Co-PI), Purbohloul, B. (Co-PI), Roth, E. (Co-PI), Borwein, P., Fischer, B., Gilbert, M., et al. New Emerging Team Grant, Canadian Institutes of Health Research, \$2,446,745 from January 2008 to December 2012.

Infectious disease, illicit substance use, marginalized populations and public health. Fischer, B. (PI). 'Applied Public Health' Research Chair, Canadian Institutes of Health



Research and Public Health Agency of Canada, \$925,000 from March 2008 to February 2013.

Commissioned research contracts won

Review of Addiction Services in Alberta (AADAC). Stockwell, T. (PI), Reist, D., & Anderson, J. F. BC Mental Health and Addiction Services, \$48,600 from October 2007 to January 2008.

A comprehensive alcohol and other drug epidemiological monitoring system for Canada—British Columbia project phase II. Stockwell, T. (PI), Macdonald, S., Michelow, W., Puri, A., Martens, L., Fisher, F., et al. BC Mental Health and Addiction Services, \$370,000 from November 2007 to March 2009.

Support for comprehensive alcohol and other drug epidemiological monitoring system for Canada—British Columbia project phase II. Stockwell, T. (PI). BC Ministry of Health, \$20,000 from January 2008 to March 2009.

Evaluation of the BC methadone maintenance treatment program: Phase 1—An issues scan. Parkes, T. (PI), & Stockwell, T. (Co-PI). BC Ministry of Health, \$100,000 from January 2008 to September 2008.

“Sir Ringe” program evaluation. Reid, W. (PI), & Stockwell, T. (Co-PI). BC Ministry of Health, \$15,000, and Interior Health Authority, \$10,000 from February 2008 to December 2008.

Data analysis in support of the comprehensive alcohol and other drug epidemiological monitoring system for Canada—British Columbia project phase II. Stockwell, T. (PI). BC Ministry of Health, \$50,000 from February 2008 to March 2009.

Update to the 2002 BC Provincial Health Officer’s report, “Public Health Approach to Alcohol Policy.” Stockwell, T. (Co-PI), Thomas, G. (Co-PI), Reist, D., Buxton, J., & Macdonald, S. BC Ministry of Health, Office of the Provincial Health Officer, \$21,000 from April 2008 to October 2008.

Research infrastructure support

The alcohol and other drug epidemiology hub of the BC Mental Health and Addictions Research Network. Stockwell, T. (PI). BC Mental Health and Addictions Research Network, \$75,000 from April 2008 to March 2009.

Table 1: Performance Indicators for Key Results Area 1

Objective		Performance indicators for 2007–08
1.1	Achieve increased funding for addictions research in BC.	<ul style="list-style-type: none"> Funding received in 2007–08 from applications involving CARBC staff and site directors: (a) \$350,518 from national research competitions (\$473,000 in 2006–07; \$352,000 in 2005–06), (b) \$118,671 from BC research competitions (\$111,000 in 2006–07; \$157,000 in 2005–06), and (c) \$784,850 received from contract research (\$462,000 in 2006–07; \$378,000 in 2005–06).
1.2	Increase funding applications for long-term research programs addressing research areas of high priority in BC.	<ul style="list-style-type: none"> Research funding competitions: 8 (7 successful; 4 in 2006–07) Contracts/commissions: 8 (8 successful; 7 in 2006–07) <i>NB Co-Leadership of the BC Mental Health and Addictions Research Network contributed others.</i>
1.3	Achieve successful collaborations with researchers and community partners.	<ul style="list-style-type: none"> 18 new projects with collaborators external to CARBC (17 in 2006–07; 9 in 2005–06) 2 new researchers with relevant expertise introduced to addictions research (2 in 2006–07; 1 in 2005–06)
1.4	Attract and retain high quality researchers from a broad range of disciplines.	<ul style="list-style-type: none"> 9 UVic Faculty and CARBC site directors with PhD’s (9 in 2006–07; 7 in 2005–06) 0 post-doctoral fellows at CARBC (1 in 2006–07; 0 in 2005–06)
1.5	Attract high quality students from a broad range of disciplines.	<ul style="list-style-type: none"> 12 graduate students under CARBC supervision working on addictions-related topics (6 in 2006–07; 0 in 2005–06)

Objective		Performance indicators for 2007-08
1.6	Provide training opportunities and programs for the development of additional research skills among CARBC staff, students and affiliates.	<ul style="list-style-type: none"> • 2 international conferences for junior research staff (2 in 2006-07; 0 in 2005-06) • 2 CARBC research staff attended a statistics course (3 in 2006-07; 1 in 2005-06) • Contributions to 4 graduate research training programs within UVic (4 in 2006-07; 4 in 2005-06) and 3 funded graduate training programs accessible to students across BC (3 in 2006-07; 0 in 2005-06)
1.7	To provide mentorship to new and existing researchers across a range of community settings.	<ul style="list-style-type: none"> • 5 new drug and alcohol researchers working on CARBC projects under supervision (5 in 2006-07; 3 in 2005-06)
1.8	Improve access to data sets and platforms for addiction researchers.	<ul style="list-style-type: none"> • Continued development of a BC-wide alcohol and other drug epidemiological monitoring platform • Continued collaboration with the BC Mental Health and Addictions Research Network to develop research "hubs" in the areas of clinical research and pharmaco-epidemiology.
1.9	Support provincial, national and international research capacity through editorial and peer review activities.	<ul style="list-style-type: none"> • Peer review of articles submitted to journals and grant proposals: approx. 54 over the year (approx. 75 in 2006-07) • CARBC faculty hold editorial positions with <i>Addiction</i>; <i>Drugs: Education, Prevention and Policy</i>; <i>Canadian Journal of Criminology</i>; <i>Substance Use and Misuse</i>.

Key Results Area 2

“To conduct high quality research that increases understanding of substance use and addiction and informs effective responses.”

Highlights

In 2007–08, the Epidemiology and Monitoring Unit continued to document detailed changes in alcohol and drug use over time and between geographic regions of BC and Canada. Progress was made in the area of alcohol consumption research. We have documented per adult consumption in the five health authorities, 16 health service delivery areas and 89 local health areas of BC, up to and including the end of 2007. Work is underway to identify consumption across the province of high-risk alcoholic beverages, defined as cheap high alcohol content drinks. This research represents the most detailed analysis of alcohol consumption in BC. We are also involved in collecting data on drug episode separations for alcohol, cocaine, cannabis, opiates and amphetamines over time and between provinces of Canada.

Within the Illicit Drugs, Public Health and Policy Unit, a variety of research activities were begun and several major projects were completed. Some of the highlights include (i) a collaborative study with the Centre for Addiction and Mental Health in Toronto which compared heroin users and prescription opioid user using data from the multi-site OPICAN cohort, and (ii) a study on sourcing patterns of prescription opioids illicitly used by street drug users in Toronto and Victoria. Dr. Fischer also worked with collaborators from Australia and the US on an international report for cannabis control reform options spearheaded by the UK’s Beckley Foundation. The report is scheduled for release during the 2009 United Nations General Assembly Special Session on Drugs. The Unit also engaged in developing a research protocol for a forthcoming study of crack use in mid-sized BC communities, funded by the Vancouver Island Health Authority and the BC Ministry of Health.

Completed projects

What happens when government monopolies on the retail sale of alcohol are disbanded?

Investigators: Harold Holder (PI), Sven Andreasson, Ted Miller, Thor Norström, Esa Österberg, Mats Ramstedt, Ingeborg Rossow and **Tim Stockwell**

Funding body: National Institute of Public Health, Sweden

Summary: The aim of the project was to build a model based on empirical evidence for the relative impact of different alcohol monopolies, and to apply the model to different policy scenarios. The first application of the model was for Sweden, but there is potential to apply it to other jurisdictions such as British Columbia. The public report was submitted in November 2007. A paper is currently being prepared for publication in a journal.

Price and tax incentives for consumers to choose lower alcohol content beverages

Investigators: Tim Stockwell (PI), Scott Macdonald, David Segal, Jinhui Zhao and Basia Pakula

Funding body: CARBC

Summary: Price, alcohol content and alcohol sales have been obtained from the Liquor Distribution Branch in order to estimate typical market share and retail prices for different alcohol content drinks. In many instances these data show that higher alcohol content varieties (e.g., beer and coolers) have lower prices than do low alcohol content drinks. A statistical bulletin was released in December 2007 at a public seminar in Victoria.

Table 2: Market share and price incentives for consumers to choose different strength coolers in BC, August 2007

Strength	Percent of cooler market	Number of brands	Mean alcohol content	Mean \$ per standard drink	Mean \$ per litre of drink
4.0-5.9%	15.45	35	5.06	2.74	8.07
6.0-6.9%	6.78	14	6.10	1.94	6.87
7.0%	77.77	91	7.00	1.33	5.41
Total	100.00	140	6.43	1.74	6.22

What did you drink yesterday? Analysis of the 2004 National Drug Strategy Household Survey

Investigators: Tim Stockwell (PI), Jinhui Zhao, Tanya Chikritzhs and Tom Greenfield

Funding body: CARBC

Summary: The Australian National Drug Strategy Household Survey features a broad range of measures of alcohol consumption including quantity frequency, graduated frequency and yesterday consumption. The public health and policy utility of the yesterday questions in the survey was investigated. This telephone survey of approximately 29,000 Australians was conducted on every day of the week over a period of several months in 2004. Weighted responses (by age, gender and day of week) were analyzed to both the simple and detailed set of questions about consumption the day before the interview. This enabled estimates of the size of an actual "standard drink," the extent of unrecorded consumption, the extent of consumption in excess of low-risk drinking guidelines and the extent to which different beverages were consumed in hazardous fashion. Separate analyses were conducted for high-risk groups such as teenagers, young adults and Aboriginal respondents. The analysis was completed and a paper was accepted for publication in *Addiction*. A joint statistical bulletin was also prepared with the Australian National Drug Research Institute.

Feasibility study for supervised drug consumption options in Victoria

Investigators: Benedikt Fischer (PI), Christiane Allard, Michelle Coghlan and Jo-Anne Stoltz

Funding bodies: Vancouver Island Health Authority and the City of Victoria

Summary: This project consisted of multiple components including interviews and focus groups with a variety of local stakeholders concerning the needs, considerations and options for supervised drug consumption measures in Victoria, and an international literature review on models and experiences elsewhere. The final report for the project was submitted to the funders in May 2007.

Epidemiology and morbidity/mortality harms of opioid use in Canada

Investigators: Juergen Rehm (Co-PI), Benedikt Fischer (Co-PI) and S. Popova

Funding body: Schering-Plough of Canada

Summary: This study used different estimation methods, analyses and data from a variety of sources to estimate the number of prescription opioid abusers in Canada, their morbidity and their mortality risk characteristics. The main purpose of this effort was to assess the extent of the potential need for opioid pharmacotherapy treatment options in Canada. A report was submitted to the funder, and a paper based on the data estimations and results was submitted for peer-reviewed publication.

Socio-epidemiological and biological study focusing on the detection of hepatitis C virus (HCV) on oral crack use paraphernalia

Investigators: Benedikt Fischer (PI), J. Powis and M. Krajden

Funding body: Canadian Institutes of Health Research (ICE grant on socio-behavioral research on HCV in marginalized populations and the NCRTP–HepC)

Summary: This study collected recently used crack pipes from a sample of inner city crack users in Toronto and biologically tested them for the presence of HCV as one necessary piece of information to determine whether HCV may plausibly be transmitted by the sharing of oral crack use paraphernalia (as several epidemiological studies suggest). The study was completed and published in the *European Journal of Gastroenterology and Hepatology*, resulting in extensive media attention across Canada and changes in provincial public health programs for crack users in BC and Ontario.

Analyses of most recent follow-up and longitudinal data from the multi-site 'OPICAN' study of illicit opioid and other drug users across Canada

Investigators: Benedikt Fischer (PI), Juergen Rehm and J. Patra

Funding body: Canadian Institutes of Health Research (IHRT grant)

Summary: Recent data from the OPICAN study, published in the *Canadian Medical Association Journal* in November 2006, documented a substantial shift away from heroin use to prescription opioid use among street drug user populations in Canadian cities. Additional analyses have further examined changing drug use and associated key characteristics in this study population.

Two major analyses—a latent class analysis of poly-drug pattern typologies and a comparison analyses of heroin-only, prescription opioid-only, and poly-opioid users—were completed and published in *Drug & Alcohol Review*. The analyses were also accepted for publication in *Addiction Research and Theory*.

BC pilot alcohol and other drug monitoring project

Investigators: Tim Stockwell (PI), Scott Macdonald, Lorissa Martens, Katie Fisher, Andrew Ivsins, Warren Michelow, Ajay Puri, Juergen Rehm, Cameron Duff, Clifton Chow, David Marsh, Jane Buxton, Andrew Tu, Elizabeth Saewyc, Annie Smith, Krista Richard, Ray Corrado and Irwin Cohen

Funding bodies: BC Mental Health and Addiction Services (PHSA), Health Canada, Vancouver Island Health Authority, BC Mental Health and Addictions Research Network, the Canadian Institutes of Health Research, Vancouver Coastal Health, Fraser Health, BC Ministry of Health and the Crystal Meth Secretariat

Summary: CARBC was awarded a contract from PHSA and Health Canada to pilot a comprehensive alcohol and other drug epidemiological monitoring system for Canada. The pilot phase of this project ended on October 31, 2007 with the completion of a substantial report (see www.AODmonitoring.ca).

Ongoing projects

Disseminating behavioural interventions to primary care: Depression and hazardous alcohol use

Investigators: John F. Anderson, Elliot Goldner, Dan Bilsker and Joti Samra

Funding body: Centre for Applied Research in Mental Health and Addiction (through an investigative team grant)

Background: This project investigates the feasibility of recruiting family physicians to screen patients for depression and hazardous alcohol use.

Progress to date: An implementation trial has been completed, and a research paper has been accepted for publication in the *Canadian Journal of Community Mental Health*.

LE,NONET project

Investigators: John F. Anderson (Research Mentor), Miranda Kelly and Marcia Koenders

Funding body: Canadian Millennium Foundation

Background: This pilot project provides an opportunity for Aboriginal undergraduate students at UVic to receive research mentorship with a UVic faculty member.

Progress to date: Miranda has completed her undergraduate research project, and her research report has been published by CARBC and placed on our website. Marcia is a new student who has been working with CARBC, assisting in the development of the Chehalis Indian Band/CARBC Knowledge Exchange Project research proposal submitted to CIHR.

Community-based mental health and addiction research collaboration with Aboriginal communities

Investigator: John F. Anderson (PI)

Funding body: BC Mental Health and Addictions Research Network

Background: The objective for this project is to establish a community-based mental health and addiction research collaboration with an Aboriginal community. Through meetings and discussions with Aboriginal community leaders, the intent is to establish a list of community-focused research priorities for addressing the impact of hazardous alcohol use (i.e., binge drinking) on alcohol-related mental and physical health outcomes including suicide, motor vehicle accidents, accidental poisonings, falls and fire-related mortality and morbidity, and liver cirrhosis.

Progress to date: Researchers have traveled to Chehalis, BC to establish a community action research collaboration with the Chehalis Indian Band.

Factors related to traffic collisions, violence and injury risk among cannabis and cocaine clients

Investigators: Scott Macdonald (PI), R. Mann, M. Chipman, P. Erickson and A. Hathaway

Funding body: Canadian Institutes of Health Research

Background: The primary purpose of this grant is to explore factors related to collisions and injuries with clients in treatment for cannabis, cocaine, gambling or tobacco cessation. Data was collected by a self-administered questionnaire from over 1000 clients in addictions-related treatment programs. Three determinants were investigated: drug factors (i.e., patterns of use, acute and chronic pharmacological actions of the drugs such as fatigue and restlessness); set factors (i.e., attitudes and personality factors such as aggression, risk-taking and sleep deprivation); and setting factors (i.e., the situations in which use and driving occur and activities undertaken after use).

Summary: Data collection for this project has been completed and analyses conducted. To date, six papers have been accepted for publication and one is currently under review. The data set is available for future analyses by scholars or students.

BC alcohol and other drug monitoring project: Implementation phase

Investigators: Tim Stockwell (PI), Scott Macdonald, Lorissa Martens, Katie Fisher, Andrew Ivsins, Warren Michelow, Ajay Puri, Juergen Rehm, Cameron Duff, Clifton Chow, David Marsh, Jane Buxton, Andrew Tu, Elizabeth Saewyc, Annie Smith, Krista Richard, Ray Corrado and Irwin Cohen

Funding bodies: BC Mental Health and Addiction Services (PHSA), Health Canada, Vancouver Island Health Authority, BC Mental Health and Addictions Research Network, the Canadian Institutes of Health Research, Vancouver Coastal Health, Fraser Health, BC Ministry of Health and the Crystal Meth Secretariat

Background: CARBC was awarded a contract from PHSA and Health Canada to pilot a comprehensive alcohol and other drug epidemiological monitoring system for Canada.

Progress to date: The pilot phase of this project ended on October 31, 2007 with the completion of a substantial report. A new contract was agreed upon for the second phase of the project, ending on March 31, 2009. This phase involves full implementation of multiple data collection components and regular reports on the project website: <http://www.AODmonitoring.ca>. Regular monitoring is now underway in these categories: (i) emergency departments, (ii) among three high-risk populations, (iii) among the general population by telephone, (iv) by use of alcohol sales data, and (v) by applying alcohol, tobacco and illicit drug attributable fractions to coronial and hospital data.

Cross-substance patterns of use, consequences and policy responses

Investigators: Tim Stockwell (PI), Gordon Barnes, Cheryl Cherpitel, Benedikt Fischer, Elliot Goldner, Joy Johnson, Scott Macdonald, Dan Reist and Julian Somers

Funding body: Canadian Institutes of Health Research (under the 2005 Research in Addictions initiative)

Background: Much of the literature that informs current understandings of psychoactive substance use and addictive behaviour, and which shapes policy responses, is based on studies that focus on a single substance type or problem outcome. This project will examine the patterns of multiple substance use, its adverse outcomes, longitudinal analysis of relationships between different substances in youth and young adults, and the population impacts of patterns of multiple substance use in BC. The multidisciplinary team will focus on three main issues: (i) transitions between different patterns of use and different classes of substances used during adolescence and young adulthood, (ii) patterns of substance use that increase the risk of emergency department presentations for injury or overdose, and (iii) multiple substance use and risk behaviours among street drug users.

Progress to date: Data collection has been completed for the third wave of the Victoria Healthy Youth Survey, a longitudinal study of health risk behaviours, allowing further analyses to be performed regarding transitions between patterns of single and multiple substance use. A core set of survey items has been developed to study patterns of multiple



substance use and their consequences in multiple surveys being conducted as part of the BC alcohol and other drug monitoring project. An international symposium on epidemiological monitoring of alcohol and other drugs was hosted by CARBC and partly funded from this grant. Several graduate students have been supported to study topics involving cross-substance patterns of use, such as the effects of the combined use of alcohol and cocaine, and patterns of multiple substance use at music festivals. Monitoring of alcohol and other drug use patterns among persons presenting to emergency departments in Vancouver in Victoria is underway, and a case crossover study regarding risk of injury from substance use combinations is in the planning stage.

Alcohol consumption in moderation

Investigators: Kaye Fillmore (Co-PI), **Tim Stockwell** (Co-PI), William Kerr, Alan Bostrom and Tanya Chikritzhs

Funding bodies: Alcohol Rehabilitation and Education Foundation, Australia, and National Drug Research Institute, Australia

Background: A meta-analysis of published research on the relationship between the level of alcohol use and risk of premature death was conducted in order to examine what happened to the apparent health benefits of moderate alcohol consumption when different biases were eliminated from the studies. Additional information was sought from the original authors to access original results.

Progress to date: The first results, published in March 2006, received extensive international media coverage. Eight commentaries on this paper and one response were published in March 2007. A follow-up paper was published in the *Journal of Studies on Alcohol and Drugs*, featuring estimates for numbers of deaths prevented and caused by different drinking patterns in Canada under different scenarios of cardiac protection, and gender differences in this protection. A third meta-analysis is underway. It will include more recently published studies.

Update to the 2002 BC Provincial Health Officer's report, "Public Health Approach to Alcohol Policy"

Investigators: **Tim Stockwell** (Co-PI), **Gerald Thomas** (Co-PI), **Dan Reist**, **Jane Buxton** and **Scott Macdonald**

Funding body: BC Ministry of Health, Office of the Provincial Health Officer

Background: BC's Provincial Health Officer, Dr. Perry Kendall, issued a report on the public health consequences of alcohol use in BC in 2002. The report highlighted concerns in relation to possible deregulation of the alcohol market in BC. Data collected from both the BC AOD monitoring project and a separate project assessing the impact of the partial privatization of the government alcohol monopoly in BC will be incorporated, with a range of other data, in a new report assessing progress six years further on. A number of policy options will be canvassed in the report.

Progress to date: Data collection and report compilation are underway.

International Guide to Monitoring Alcohol Consumption and Related Harms—2nd Edition

Investigators: Tim Stockwell (PI), Vladimir Poznyak, Tanya Chikritzhs, Scott Macdonald, Jürgen Rehm, William Kerr, David Jernigan and Deborah Dawson

Funding bodies: Department of Mental Health and Substance Abuse, and World Health Organization, Geneva

Background: The first edition of this guide was published in 2000. It became a popular WHO publication and has already been translated into several languages. The second edition includes updated material and advice regarding how to (i) conduct surveys of drinking behaviour and related harms, (ii) measure per capita alcohol consumption, and (iii) estimate mortality, morbidity, years of life lost and disability adjusted years of life lost from alcohol. Recommendations for an integrated national monitoring system across multiple data domains are also made.

Progress to date: The new edition has been translated into French and Spanish and will be made available to member countries.

Patterns of alcohol consumption in Canada and implications for policy

Investigators: Tim Stockwell, Jinhui Zhao, Gerald Thomas and Jodi Sturge

Funding bodies: CARBC and BC Ministry of Health

Background: This project is a further examination of the 2004 Canadian Addiction Survey with a view to examining the extent to which risky alcohol consumption in Canada is concentrated in just a few heavy drinkers or is spread across much of the drinking population. Risk of consumption was assessed against various Canadian and international low-risk drinking guidelines. The purpose was to question whether alcohol policies to reduce harm should target high-risk individuals or the entire population of drinkers.

Progress to date: The analysis has been completed and a paper has been accepted for publication in *Addiction Research and Theory*.

An analysis of non-response bias in national alcohol and drug surveys using the 2004 Canadian Addiction Survey

Investigators: Jinhui Zhao, Tim Stockwell and Scott Macdonald

Funding bodies: Canadian Institutes of Health Research, CARBC and BC Ministry of Health

Background: A growing problem in telephone survey research is reduced response rates from a variety of causes such as respondent fatigue and increased use of cell phones. The 2004 Canadian Addiction Survey (CAS) achieved a national response rate of 47%, while in BC the response rate was only 43%. This study examined the impact of this low response rate on levels of self-reported substance use by two methods: (i) a comparison with the 2002 Canadian Community Health Survey (CCHS) which had a 76% response rate and (ii) a comparison between people contacted using seven or fewer phone calls (early responders) with those who took eight or more (late responders). It was found that rates of substance

use were higher in the 2004 CAS than the 2002 CCHS, suggesting the low response rate may have provided a positive bias to levels of substance use reported. Late responders were significantly more likely to report alcohol, cannabis and some other drug use than early responders to the 2004 CAS, suggesting negative effects of non-response bias. Corrections for this bias were made and new estimates of prevalence of substance used in Canada were reported.

Progress to date: The analysis has been completed and a paper was presented at the 34th Annual Symposium of the Kettil Bruun Society, Victoria, BC, June 2008. This paper will be submitted for publication.

The public health impact of the partial privatization of British Columbia's government alcohol retail monopoly, 2001–2007

Investigators: Tim Stockwell, Jinhui Zhao and Scott Macdonald

Funding bodies: Canadian Institutes of Health Research, CARBC and BC Ministry of Health

Background: The BC government's retail alcohol monopoly has been gradually privatized in recent years. In 2001–02 there were 222 government liquor stores compared with 208 in 2005–06 (-6.3%). Over the same period private liquor stores increased from 648 to 938 (+44.8%) while per capita alcohol sales per person aged 15 and over increased from 7.72 litres to 8.23 litres (+6.6%). Two hypotheses were tested regarding the observed increase in alcohol sales in BC: (i) this was due to an increase in density of liquor outlets and (ii) this was due to an increasing proportion of stores being private. The BC Liquor Distribution Branch provided data (by beverage type) on litres of ethanol sold through different types of outlets in 28 regions of the province. Multilevel regression analyses have been conducted to test this hypothesis. Further analyses will investigate impacts of these changes in alcohol sales on local rates of alcohol-caused mortality and morbidity.

Progress to date: A preliminary analysis has been completed, and a paper was presented at the 34th Annual Symposium of the Kettil Bruun Society, Victoria, BC, June 2008. A new date has been set, more detailed local area data has been acquired and the analysis will be repeated.

Evaluation of the BC Methadone Maintenance Treatment Program: Phase 1—An issues scan

Investigators: Tessa Parkes (PI) and Tim Stockwell (Co-PI)

Funding body: BC Ministry of Health

Background: The Ministry of Health has asked CARBC to evaluate the BC Methadone Maintenance Program (MMTP) and report back key findings and recommendations for improvement. The purpose and objectives of the evaluation are to

- examine MMTP systems and identify factors related to treatment access, retention, quality, effectiveness and inequalities,
- investigate the fiscal issues and accountabilities related to the MMTP, and
- summarize findings and make recommendations for improvement.

The evaluation is being conducted throughout 2008 and will result in a comprehensive report for the Ministry of Health at the end of the year. A qualitative approach to gathering views from a wide range of stakeholders across the province, including methadone clients and consumers, is being prioritized in this review.

Progress to date: The first phase of data collection—an “issues scan” with key informants—is well underway.

“Sir Ringe” program evaluation

Investigators: Reid Webster (PI) and Tim Stockwell (Co-PI)

Funding bodies: BC Ministry of Health and Interior Health Authority

Background: The “Sir Ringe” program is designed to teach children and youth about “good” needles and “bad” needles. It was developed through the Interior Health Authority and has been piloted in Kamloops and several other small communities in BC. In 2007, CARBC was asked to evaluate the effectiveness of this program. To this end, Dr. Reid Webster (Thompson Rivers University), Dr. Jim Frankish (Centre for Population Health Promotion Research at UBC), Mr. Kenneth Tupper (Ministry of Health) and Ms. Gayle Carrier, Ms. Nora Walker and Ms. Mary Bates (Interior Health Authority) have worked together over the past 12 months to develop the objectives and goals of the project. Tentatively, the “Sir Ringe” program has been slated to be delivered and evaluated in the spring of 2009 in two comparable communities: Vernon and Salmon Arm. The final project will be completed by December 2009.

Progress to date: Dr. Frankish is in the process of developing the evaluation protocol.

Hepatitis C treatment study in preparation for illicit drug users in community clinics in Vancouver and Victoria

Investigators: Brian Conway (PI) and Benedikt Fischer (Co-PI)

Funding body: Canadian Institutes of Health Research

Background: Illicit drug users are by far the largest risk population for hepatitis C infection, yet they are rarely considered for treatment. This trial will operationalize different hep C treatment models for the target population in Vancouver and Victoria clinic sites, and focus on factors influencing treatment uptake and outcomes.

Progress to date: Recruitment for the study is underway, with a substantial population of potential study participants having undergone screening. A small sample has been initiated on treatment.

Sourcing for prescription opioids in Toronto and Victoria

Investigators: Benedikt Fischer (PI), Juergen Rehm (Co-PI) and M. Firestone-Cruz (Co-PI)

Funding body: Canadian Institutes of Health Research/IHRT Project ‘Illicit Opiates’

Background: Prescription opioid use is increasingly prevalent among street drug users, yet sourcing patterns for this group of (pharmaceutical) substances are potentially diverse and not well documented. This information is relevant for prevention and diversion control efforts.

Progress to date: An exploratory study on prescription opioid sourcing patterns has been undertaken with two small samples of regular street-involved prescription opioid users in Toronto and Victoria. Preliminary data has been collected, analyzed and drafted into a manuscript.

Crack use in Vancouver Island communities

Investigators: Benedikt Fischer (PI), Juergen Rehm (Co-PI) and M. Firestone-Cruz (Co-PI)

Funding body: BC Ministry of Health

Background: Crack is a commonly used illicit drug among street-involved users in BC and elsewhere. Yet little is known about the specific drug use patterns, health and intervention needs of street-involved users, especially those residing outside larger urban areas. This project will explore these features among street-involved crack users in the Vancouver Island Health Authority region.

Progress to date: Study protocol is in development.

Cannabis use control policy reform: Beyond stale

Investigators: R. Room (PI), Benedikt Fischer, W. Hall, S. Lenton and P. Reuter

Funding body: Beckley Foundation, UK

Background: Cannabis is the most widely used illicit substance in the world. While the international drug control treaties established throughout the 20th century require the criminal control of cannabis use from its signatories, in the past few decades there has been increasing dissatisfaction with, and deviations in national policies from, criminal cannabis use control regimes in several countries. This comprehensive study by a group of authors from Australia, Canada and the US is aimed for presentation at the 2009 United Nations General Assembly Special Session on Drugs. It will examine (i) cannabis use epidemiology around the world, (ii) health effects of cannabis use, (iii) existing cannabis control policy reform models and their impact on use and harms, and (iv) options for reform of the international drug control treaties with respect to cannabis use. The report will conclude with a set of recommendations for cannabis use control reform options around the world, with the aim of cannabis control policy primarily guided by a framework of public health, good public policy and human rights.

Progress to date: Manuscripts are in development.

Children, youth and promotional contests: Understanding the risks and examining potential interventions to inoculate children and youth against problem gambling and poor nutritional habits

Investigator: Tim Pelton

Funding body: University of Victoria

Background: This research grant is intended to support the applicant/researcher with the resources necessary to (i) conduct research to examine the impact of promotional contests (PCs) on children and youth (i.e., new facts), (ii) generate prototype interventions—both online and in-person—to protect children and youth from exploitation, and to increase numeracy and consumer awareness (i.e., new applications), (iii) undertake essential piloting to support refinement of intervention plans and processes, (iv) provide evidence to support acquisition of further grants, and (v) develop proposals for local, regional and national granting agencies to extend and expand this research.

Progress to date: The project is underway, with a current focus on the development of intervention plans and methodology.

Changes in pharmaceutical opiate use rates in new members of a community-based medical cannabis dispensary suffering from chronic pain

Investigator: Philippe Lucas

Funding bodies: CARBC and UVic Graduate Studies

Background: This is a pre-test/post-test survey study designed to examine the changes in both the quality of life and use of pharmaceutical opiates and other drugs in chronic pain sufferers newly registered with the Vancouver Island Compassion Society over a four week period. The study will analyze opioid-cannabinoid interactions and test a microcosm of the “substitution effect,” a theory that suggests that the availability (or lack thereof) of one substance can influence the use or misuse of another.

Progress to date: This project received ethics approval from UVic in February of 2008. The recruiting of study participants is underway.

Media, methamphetamine and marijuana grow-op project

Investigator: Susan Boyd

Funding body: Social Sciences and Humanities Research Council of Canada

Background: The project examines national, provincial, and local print media, policy initiatives, and criminal and civil responses over a 12 year period in relation to methamphetamine use and production and marijuana grow-operations.

Progress to date: Research is ongoing, and a report will be drafted for publication in late 2008.

Safer crack use in an urban crack-using population

Investigators: Joy Johnson (PI), Susan Boyd (Co-I), Jane Buxton (Co-I) and J. Loudfoot (Co-I)

Funding body: Health Canada, Drug Strategy Community Initiatives Fund

Background: This is a collaborative project between CARBC and the Safer Crack Use Coalition of Vancouver. The study will provide information about the feasibility and utilization of a specific harm reduction initiative (safer crack kits) among crack users in Vancouver.

Progress to date: A community forum was held at the First United Church in Vancouver, BC on March 4, 2008. Research is ongoing.

Evaluation of the Victoria Foundation FASD Action Fund

Investigators: A. George (Co-PI), Cindy Hardy (Co-PI) and Erica Clark

Funding body: Victoria Foundation

Background: This project involves the evaluation of a set of demonstration projects, conducted throughout BC during the next 3 years. The common threads between the demonstration projects are that (i) they are all funded by the Fetal Alcohol Spectrum Disorder (FASD) Action Fund, administered by the Victoria Foundation, and (ii) they have a common target population of people affected by FASD. The overall arching questions for this evaluation are: Did the distribution of these funds make a difference? If so, for whom?

Progress to date: The evaluation team has begun contacting leaders of the Victoria Foundation-funded demonstration projects to get their feedback on the application process and any challenges they have encountered in starting their projects. We are also contacting leaders of project proposals and expressions of interest that did not receive funding in order

to get their feedback on the application process. The evaluation team is developing logic models, one for each demonstration project, which will be used to define indicators for evaluating project outcomes.

Driving under the influence of drugs

Investigator: Jeff Brubacher

Funding body: BC Mental Health and Addictions Research Network

Summary: This is a pilot project to develop a protocol for a prospective study involving injured drivers treated in the emergency room after a car crash. Blood samples will be obtained and analyzed for drugs. Clinical data from the driver’s medical record will also be obtained. This information will be linked with ICBC records to determine culpability, and will eventually be linked with subsequent driving records.

Progress to date: Participant recruitment is currently underway.

Table 2: Performance Indicators for Key Results Area 2

Objective		Performance indicators for 2007–08
2.1	Conduct research on the patterns, distribution, determinants and consequences of substance use.	<ul style="list-style-type: none"> 32 projects initiated, completed, or underway (18 in 2006–07; 7 in 2005–06)
2.2	Conduct research that is valued by stakeholders as being of high quality, timely and relevant to public policy and practice.	<ul style="list-style-type: none"> CARBC has 7 prepared policy documents under commission (6 in 2006–07; 3 in 2005–06)
2.3	Identify key strategic research opportunities that will inform policy and practice.	<ul style="list-style-type: none"> CARBC helped initiate projects concerned with prescription opioids, hepatitis C among IDUs, alcohol taxation policy, brief interventions by GPs and supervised injection sites

Objective		Performance indicators for 2007-08
2.4	Conduct research on <ul style="list-style-type: none"> • province-wide monitoring of alcohol, tobacco, gambling and other drug use patterns and related harms, • the impact of educational, legislative and regulatory strategies to minimise alcohol and other drug-related harms, • development and evaluation of more effective community prevention programs, • development and evaluation of more effective treatment systems and programs, • investigation of the influence of structural determinants and the social contexts of drug use on the implementation of strategies designed to reduce and prevent harmful drug use, and • research and evaluation of effectiveness of knowledge translation and exchange activities and strategies. 	<ul style="list-style-type: none"> • 20 relevant projects (12 in 2006-07; 5 in 2005-06) • 8 relevant projects (5 in 2006-07; 9 in 2005-06) • 4 relevant project (3 in 2006-07; 2 in 2005-06) • 3 relevant projects (1 in 2006-07; 1 in 2005-06) • 15 relevant projects (10 in 2006-07; 8 in 2005-06) • 3 projects underway (3 in 2006-07; 1 in 2005-06)
2.5	Develop and maintain significant collaborative projects with other researchers and research centres in British Columbia.	• 17 projects (14 in 2006-07; 7 in 2005-06)
2.6	Develop and maintain research projects that engage researchers from several relevant disciplines.	• 23 projects involving multi-disciplinary participation with individuals and other centres (24 in 2006-07; 15 in 2005-06)
2.7	Develop and maintain significant collaborative projects with other researchers and research centres in North America.	• 10 collaborative projects with other North American researchers and research agencies each year (12 in 2006-07; 11 in 2005-06)
2.8	Develop collaborative projects with international organizations.	• 7 collaborations with international organizations, researchers or groups (9 in 2006-07; 3 in 2005-06)

Key Results Area 3

“To disseminate research findings that increase understanding of substance use and addiction, to increase awareness of related harms and to identify effective responses.”

Highlights

In May 2007, CARBC hosted an international symposium dedicated to identifying best practice in international alcohol and other drug monitoring systems. A total of 46 papers were presented, and over 90 delegates attended from Canada, South Africa, Australia and several countries in both Europe and South America. Highlights from the symposium are soon to be featured in two special issues of *Contemporary Drug Problems*.

In 2008 in Victoria, CARBC hosted the 34th Annual Alcohol Epidemiology Symposium of the Kettil Bruun Society, an international conference that attracted about 200 participants from over 30 countries. A grant from the BC Ministry of Health and a peer-reviewed grant from the Social Sciences and Humanities Research Council helped offset costs and provide travel support for people to attend the conference. Considerable planning and preparation was conducted during the 2007–08 fiscal year for this event.

Dr. John Anderson, who is jointly appointed to CARBC and the Island Medical Program, has implemented two major knowledge exchange research studies, one involving the dissemination of brief intervention skills to general practitioners and the other involving the development of a knowledge exchange process with BC First Nations communities.

Following the release of the CARBC Illicit Drug, Public Health and Policy Unit’s Feasibility Study on SCS Options for Victoria earlier in 2007, BC’s Medical Health Officer Dr. Perry Kendall and the Unit’s Director Dr. Benedikt Fischer jointly published an editorial in the *BC Medical Journal* outlining the case for an SCS initiative in Victoria. The publication of the Unit’s study on the possibility of hepatitis C virus transmission through the sharing of crack pipes (*European Journal of Gastroenterology and Hepatology*) in late 2007 attracted considerable media attention and triggered the local health authority’s (VIHA) decision to support the distribution of safer crack use materials as part of their public health interventions for street drug users.

The Communication and Resource Unit has led a variety of projects designed to ensure the up-take of evidence in understanding and responding to substance use. These include (i) conducting an evidence review on promising practices for addressing harms related to alcohol and tobacco use among seniors, (ii) facilitating an event in which policy makers and practitioners explored practical ways to apply the evidence on addressing tobacco reduction in the context of mental illness and addiction, and (iii) developing evidence-based public education materials. The unit has ongoing projects that involve developing resources for schools and post-secondary institutions as well as screening and education mechanisms related to alcohol for students and the public.

The work of UVic graduate student David Segal, under the supervision of CARBC Director Dr. Tim Stockwell, was showcased along with the BC Alcohol and Other Drug Monitoring Project at a public seminar at Spinnakers Brewpub in Victoria in December 2007. This attracted substantial media interest and supported a CARBC/Provincial Health Officer proposal to tax low alcohol content drinks less than high alcohol content drinks.

Commissioned knowledge exchange contracts

Knowledge summary on substance abuse. Reist, D. (PI), Anderson, J. F., Coleman, P., Reimer, B., & Thomas, G. Joint Consortium on School Health, \$50,000 from October 2007 to June 2008.

Tobacco reduction in the context of mental illness and addictions. Reist, D. (PI). Provincial Health Services Authority, \$15,000 from December 2007 to March 2008.

Supporting community knowledge and action. Reist, D. (PI), & Pankratz, N. Vancouver Foundation, \$50,500 from December 2007 to December 2008.

Beyond 2008, NGO Consultation on International Drug Control. Reist, D. (PI). BC Ministry of Health, Health Canada, Department of Foreign Affairs and International Trade, Foundation of the Open Society Institute, and Canadian Centre on Substance Abuse, \$128,766 for February 2008.

BC Partners for Mental Health and Addictions Information. Reist, D. (PI). [Includes support for a variety of projects related to public education.] Provincial Health Services Authority, \$243,750 from April 2007 to March 2008.

Tobacco Resource Centre. Bond, J. BC Ministry of Health, \$1,673,000 from April 2005 to March 2011.

Development of a multi-system response to problematic substance use. Reist, D. (PI), Thomas, G., Dyck, T., Capler, R., Pankratz, N., Souza, E., & Reimer, B. [Includes support for a variety of projects related to prevention and education.] BC Ministry of Health, \$1,324,000 from April 2005 to March 2010.

Completed projects

Beyond 2008 global NGO forum (North America consultation)

Investigator: Dan Reist

Funding bodies: BC Ministry of Health, Health Canada, Department of Foreign Affairs and International Trade, Foundation of the Open Society Institute, and Canadian Centre on Substance Abuse.

Summary: On February 4, 2008, CARBC and Keeping the Door Open hosted a consultation in Vancouver of NGOs from across North America to assess international progress on drug control since the 1998 United Nations General Assembly Special Session on Drugs. The session also explored collaboration mechanisms among NGOs, governments and UN agencies as well as recommended key principles for future deliberations on drug policy matters.

Tobacco reduction in the context of mental illness and addictions

Investigators: Dan Reist (PI) and Gerald Thomas

Funding body: Provincial Health Services Authority

Summary: In 2006 CARBC prepared an evidence review for the Provincial Health Services Authority (PHSA) on *Tobacco reduction in the context of mental illness and addictions*. PHSA then engaged CARBC to develop and lead activities to help facilitate appropriate awareness and uptake of the evidence. CARBC developed and delivered a presentation to mental health and addictions service providers and held a half-day training symposium as a satellite to the annual consortium of the BC Mental Health and Addictions Research Network. The symposium was attended by 50 people representing service providers, policy makers and researchers and was held at the Wosk Centre for Dialogue on February 15, 2008. The program

was designed to present the evidence, directly address the implementation challenges, and do so in a solution-focused way. The goal was to honour the challenges that service providers might raise, and to offer solutions through both increased familiarity with the evidence and the sharing of case studies from those with experience addressing tobacco use by mental health and addiction clients.

The road ahead: A guidebook for parents of young teens

Investigators: Dan Reist (PI), Lu Ripley and Nicole Pankratz

Funding body: Provincial Health Services Authority

Summary: Families play a key role in preventing and reducing the harm related to substance use. They are well positioned to provide young people with a foundation that would help them make healthy decisions, build life skills and learn relevant information. Reaching this goal, however, can be challenging. CARBC developed this resource, published in late 2007 and distributed by the BC Council for Families, to help parents maximize their prevention and educational efforts.

Leading and promising practices for addressing harm from alcohol and tobacco use among seniors (65+) in British Columbia

Investigators: Gerald Thomas (PI), Tim Dyck and Dan Reist

Funding body: BC Ministry of Health

Summary: The purpose of this paper was to provide guidance to the BC Ministry of Health in its efforts to better address the needs of older adults (age 65+) who engage in the problematic use of alcohol and tobacco. Specifically, this paper (i) discusses rationales for targeting the problematic use of substances by older adults, (ii) provides a review of the health benefits of addressing problematic alcohol and tobacco use among older adults, (iii) characterizes alcohol and tobacco use among this segment of the population in BC, (iv) reviews best and promising practices for messaging and treatment/cessation interventions for older adults who engage in problematic alcohol and tobacco use, (v) presents an environmental scan of existing policies and programs for addressing problematic alcohol and tobacco use among seniors in BC, (vi) identifies gaps between current policies/programs and best and promising practices, and (vii) offers recommendations for improving BC's response to problematic alcohol and tobacco use by older adults. The paper was submitted to the BC Ministry of Health in October 2007. Discussions on implications are ongoing.

Recommended practices for educating about and enforcing smoke-free laws and retail display bans for tobacco: A review of Canadian and international practices

Investigators: Gerald Thomas (PI) and Dan Reist

Funding body: BC Ministry of Health

Summary: Governments in Canada and around the world continue to enhance their tobacco legislation in order to control tobacco use and further reduce the health and social harms associated with smoking and other forms of tobacco consumption. Recently, the Province of British Columbia passed Bill C-10: Tobacco Sales (Banning Tobacco and Smoking in Public Places and Schools) Amendment Act, 2007, which extends existing legislation by (i) prohibiting tobacco sales in certain locations, (ii) banning designated smoking rooms (DSR's), (iii) prohibiting tobacco use on school grounds, (iv) creating smoke-free buffer zones around public doors, windows and air intakes, and (v) banning the retail display of tobacco and tobacco-related products where youth have access. This document provides a review of Canadian and international educational and enforcement activities related to implementing

smoke-free legislation (including buffer zones and smoke-free school grounds) and retail tobacco display bans with the goal of identifying recommended practices for promoting awareness of and compliance with these types of tobacco control regulations. A paper was submitted to the BC Ministry of Health in August 2007.

Review of Alberta Alcohol and Drug Abuse Commission

Investigators: Patrick Smith, **Tim Stockwell**, **Dan Reist**, **Gerald Thomas** and **Bette Reimer**

Funding body: Alberta Alcohol and Drug Abuse Commission (AADAC)

Summary: BC Mental Health and Addiction Services and CARBC were awarded a contract to conduct a review of AADAC services to inform future development of the addiction service system in Alberta. The project's primary objectives included (i) identifying the implications of best and emerging practices on addiction service delivery in Alberta, (ii) providing evidence-based recommendations to close gaps and minimize duplications in service, and (iii) providing recommendations and strategies to enhance the delivery of services in Alberta. The review was submitted in April 2008.

Media project

Investigator: **Nicole Pankratz**

Funding body: BC Ministry of Health

Summary: This project involved writing substance-related columns (using CARBC research and reports where possible) and submitting them to approximately 100 community newspapers in BC each month. During 2007–08, 10 columns on various subjects appeared in a wide variety of print and online newspapers. One column was also reprinted for one year on a website sponsored by the Ministry of Children and Family Development. Several columns were quoted and discussed on online forums. As a result of regular contact with community newspapers, editors, writers and readers across the province were introduced to CARBC, its work (including the low-risk drinking guidelines) and new website.

Ongoing projects

Chehalis Indian Band/CARBC knowledge exchange project

Investigators: **John F. Anderson**, **Basia Pakula**, Vicky Smye and Chehalis Indian Band

Funding body: Michael Smith Foundation for Health Research, Part of Investigative Team Grant

Background: The objective for this project is to develop a research proposal to study effective strategies to promote knowledge transfer and mobilization. If the grant application is successful, additional resources would then be available to establish a knowledge exchange process that builds a common understanding of health care issues and co-produces new knowledge to (i) inform the development of best practice interventions that address the health care priorities of the local community, and (ii) inform the expansion of the Chehalis Community Health Centre Model.

Progress to date: A Canadian Institutes of Health Research knowledge synthesis/exchange grant proposal has been submitted (\$100,000). A CIHR operating grant proposal is in progress.

iMinds

Investigators: Dan Reist (PI), Nicole Pankratz, Jean Douglas and Mona Wynn

Funding Body: BC Ministry of Health and BC Partners for Mental Health and Addictions Information

Background: CARBC is developing for BC schools a set of learning resources that promotes health literacy related to behaviour, substance use and mental wellness. The materials have a solid theoretical foundation that draws on a social influence model of behaviour development and a constructivist approach to education. A recently-published parent resource, *The road ahead: A guidebook for parents of young teens*, will also be distributed by schools and other community organizations.

Progress to date: The Grade 6 module has been pilot-tested in five school districts. CARBC provided teaching training prior to implementation. Modules for Grades 7 and 8 will be ready for testing by September 2008, and modules for Grades 9 and 10 will be ready later in the fall. Three more school districts have asked to be included in the pilot and will begin using the materials in the 2008–09 school year.

Alcohol screening and education

Investigators: Tim Dyck (PI), Nicole Pankratz and Dan Reist

Funding bodies: BC Ministry of Health and Provincial Health Services Authority

Background: CARBC has done significant work in identifying the role of alcohol in contributing to substance-related risk and harm in BC. The BC Ministry of Health and the Provincial Health Officer have been drawing attention to the importance of effective policies and programs related to alcohol. CARBC promotes low-risk drinking guidelines in BC and encourages alcohol screening in various settings.



Progress to date: CARBC has developed an online self-test, www.alcoholreality.ca, to help adults assess their drinking patterns. A similar online screening tool is being developed for youth. CARBC has also developed paper-based screening tools and brief intervention guides for both adults and youth. They are used in community-based screening events for depression, anxiety and alcohol use. Also available from CARBC is a range of supportive evidence-informed public education resources and promotional materials related to alcohol and low-risk drinking. These tools are continuing to be enhanced and tested.

Campus project

Investigators: Tim Dyck (PI) and Dan Reist

Funding bodies: BC Ministry of Health and Provincial Health Services Authority

Background: BC Partners for Mental Health and Addictions Information has been working to help post-secondary institutions address mental health and substance use issues more effectively. CARBC supports this project and contributes particular support around addressing alcohol on campuses.

Progress to date: CARBC conducted a review of the literature and produced a guide to evidence-based approaches for addressing alcohol use on campus. The Centre is

actively working with several campus-based groups to help them plan and implement various strategies, and is currently developing tools for these campus groups to assist in implementing effective policies and programs.

HereToHelp project

Investigators: Nicole Pankratz and Dan Reist

Funding Body: Provincial Health Services Authority

Background: BC Partners for Mental Health and Addictions Information is seeking to provide a central resource for the public to access quality information on mental health and substance use.

Progress to date: CARBC is currently working with the Canadian Mental Health Association on a project to develop a comprehensive series of public education materials related to substance use and mental health. To date, CARBC has drafted 20 substance-related fact sheets, backgrounders and tip sheets related to substance use. An additional 15 resources are planned for the coming year. All of these resources will be available on the HereToHelp website, www.heretohelp.bc.ca

Visions

Investigators: Nicole Pankratz and Dan Reist

Funding body: Provincial Health Services Authority

Background: BC Partners for Mental Health and Addictions Information publishes a quarterly journal on mental health and substance use that provides a point of dialogue for consumers, practitioners, policy-makers and researchers. CARBC is a member of the editorial board for this journal and contributes content to most issues.

Progress to date: CARBC staff contributed 4 articles to Visions.

Knowledge summary on substance use and schools

Investigators: Dan Reist (PI), Gerald Thomas, Rielle Capler, John F. Anderson and P. Coleman

Funding body: Joint Consortium on School Health (BC Ministry of Education)

Background: The Pan-Canadian Joint Consortium for School Health (JCSH), seeking to support provincial/territorial school health coordinators and contribute to inter-provincial and international exchanges of information, has contracted with CARBC to develop knowledge transfer tools to assist schools in applying available evidence when addressing substance use issues.

Progress to date: CARBC is currently developing four knowledge kits that utilize common models for understanding substance use but target specific groups of school professionals with the information and tools they need to apply evidence to policy development and program implementation in Canadian schools.

Development of a multi-system response to problematic substance use

Investigators: Dan Reist (PI), Evelyn Souza and Bette Reimer

Funding body: BC Ministry of Health

Background: The BC Ministry of Health has provided funding for CARBC to operate a web-based resource centre to support communities and service providers in preventing and reducing the harm associated with substance use.

Progress to date: CARBC maintains within its website a catalogue of resources that provides access to information on (i) effective programs and approaches to addressing substance use and (ii) substance use patterns, risks and harms. The Centre also operates a warehouse for the distribution of products (primarily related to tobacco use prevention and cessation).



Media (other)

Investigators: Nicole Pankratz and Dan Reist

Funding Body: BC Partners

Background: CARBC contributed one article to an online parent magazine. “Talking to your child about tobacco, alcohol and other drugs” was featured on Canadian Parents Online during the week of May 7, 2007. It now appears in the archives. An article on alcohol called “How much is too much, and how often is too often?” continues to be featured on www.2020parenting.com.

Progress to date: Ideas for new articles are in the works.

National Awards for Excellence

Investigator: Dan Reist

Funding body: Kaiser Foundation

Background: The Kaiser Foundation’s National Awards for Excellence in mental health and addictions initiatives is a yearly event which honours the outstanding work being done by the thousands of Canadian organizations, communities and individuals engaged in the fields of mental health and addictions. CARBC advises the Foundation in terms of criteria for evaluating nominations, recruits adjudicators and facilitates the process of recipient selection. The final decision on recipients, however, rests with the program’s National Advisory Board. CARBC has been associated with this program since its inception.

Progress to date: Ongoing.

CARBC-sponsored conferences/lectures/seminars/events

Conferences

Monitoring Alcohol and Other Drug-Related Harm: Building Systems to Support Better Policy—An International Symposium, May 7 to 10, 2007, Victoria, BC.

“Beyond 2008” Regional Consultation for North America—Vienna NGO Committee on Narcotic Drugs, February 4, 2008, Vancouver, BC.

Seminars

Responding to Alcohol: Monitoring, Treatment, Policy and Harm Reduction, May 11, 2007, Vancouver, BC.

Alcohol and Related Harm in BC: A Map and a New Direction for Harm Reduction, Spinnakers Brewpub, December 10, 2007, Victoria, BC (pictured right).



Graduate Student David Segal and Tim Stockwell

Tobacco Reduction in the Context of Mental Health and Addictions, February 15, 2008, Vancouver, BC.

Safer Crack Use, Outreach, Research and Education (SCORE) Community Forum, First United Church, March 4, 2008, Vancouver, BC.

Rethinking Treatment: Recognizing and Responding to the Spectrum of Substance Use—In Partnership with Keeping the Door Open, March 31 to April 1, 2008, Vancouver, BC.

Publications

Journal articles and book reviews

- Anderson, J. F.** (2007). Screening and brief intervention for hazardous alcohol use and Indigenous populations: Potential solution or impossible dream? *Addiction Research and Theory*, *15*(5), 439–448.
- Barnes, G. E., Mitic, W., Leadbeater, B., & Dhami, M.** (In Press). Risk and protective factors for adolescent substance use and mental health symptoms. *Canadian Journal of Community Mental Health*.
- Boyd, S., & Macrory, F.** (2007). Developing comprehensive primary and secondary services for drug and alcohol dependent mothers. *Seminars in Fetal and Neonatal Medicine*, *12*, 119–126.
- Boyd, S.** (2007). Drugs films, justice, and nationhood. *Contemporary Justice Review*, *10*(3), 263–282.
- Boyd, S.** (2007). The journey to compassionate care: One woman's experience with early harm-reduction programs in BC. *Network, Canadian Women's Health*, *10*(1), 26–28.
- Boyd, S.** (2008). Community-based research in the downtown eastside of Vancouver. *Resources for Feminist Research: Special Issue, Decolonizing Spaces*, *33*(12).
- Boyd, S.** (2008). Drug scares and practice: Sociohistorical considerations (modified and revised from *With Child* chapters). *Women, Girls & Criminal Justice*, *9*(1), 3–6.
- Brubacher, J. R., Mabie, A., Ngo, M., Abu Laban, R. A., et al.** (2008). Substance-related problems in patients visiting an urban Canadian tertiary care emergency department. *Canadian Journal of Emergency Medicine*, *10*, 198–204.
- Buxton, J. A., & Dove, N.** (2008). The burden and management of crystal meth use. *Canadian Medical Association Journal*, *178*(12), 1537–1539.

- Buxton, J. A., Tu, A., & Stockwell, T.** (In Press). Tracking trends of alcohol, illicit drugs and tobacco use through morbidity data. *Contemporary Drug Problems*.
- Dyck, T., & Pankratz, N.** (2008). The BC campus: Where futures begin? Or a site for risky substance use? *Visions: BC's Mental Health and Addictions Journal*, 4(3), 6–7.
- Didenko, E., & Pankratz, N.** (2007). Substance use: Pathway to Homelessness? Or a way of adapting to street life? *Visions: BC's Mental Health and Addictions Journal*, 4(1), 9–10.
- Duff, C., Michelow, W., Chow, C., & Stockwell, T.** (In Press). The Canadian recreational drug use survey (CRDUS): Aims, methods and first results. *Contemporary Drug Problems*.
- Fillmore, K. M., **Stockwell, T.**, Chikritzhs, T., Bostrom, A., & Kerr, W. C. (2008). Debate: Alcohol and coronary heart disease, *The American Journal of Medicine*, 121(2), e25.
- Fillmore, K. M., **Stockwell, T.**, Chikritzhs, T., Bostrom, A., & Kerr, W. C. (In Press). Commentary: A delicate matter: Scientific agreement and the “protective effect” of alcohol for disease including coronary heart disease. *Annals of Epidemiology*.
- Fillmore, K. M., Chikritzhs, T., Bostrom, A., & **Stockwell, T.** (In Press). Alcohol use and prostate cancer: A meta-analysis. *Molecular Nutrition & Food Research*.
- Firestone, M., **Fischer, B.**, Patra, J., **Kalousek, K.**, Newton-Taylor, B., Rehm, J., et al. (2007). Prevalence and associated factors of hepatitis C infection (HCV) in a multi-site Canadian population of illicit opioid and other drug users (OPICAN). *Canadian Journal of Public Health*, 98(2), 130–133.
- Fischer, B., & Coghlan, M.** (2007). Crack in North American cities: The neglected ‘epidemic.’ *Addiction*, 102, 1340–1341.
- Fischer, B.**, Firestone Cruz, M., & Rehm, J. (2007). Illicit opioid use and its key characteristics: A select overview and evidence from a Canadian multi-site cohort of illicit opioid users (OPICAN)—Reply. *Canadian Journal of Psychiatry*, 52(5), 335–336.
- Fischer, B., Oviedo-Joekes, E.**, Blanken, P., Haasen, C., Rehm, J., Schechter, M., et al. (2007). Heroin-assisted treatment (HAT) a decade later: A brief update on science and politics. *Journal of Urban Health*, 84(4), 552–562.
- Fischer, B., & Rehm, J.** (2007). Illicit opioid use in the 21st century: Witnessing a paradigm shift (Editorial). *Addiction*, 102, 499–501.
- Fischer, B., & Rehm, J.** (2007). Understanding the parameters of non-medical use of prescription drugs: Moving beyond mere numbers. *Addiction*, 102, 1931–1932.
- Fischer, B.**, Powis, J., Firestone Cruz, M., & Rehm, J. (2008). Hepatitis C virus (HCV) detection on crack use paraphernalia. *European Journal of Gastroenterology and Hepatology*, 20(1), 29–32.
- Fischer, B.**, Patra, J., Firestone Cruz, M., & Rehm, J. (In Press). Comparing prescription opioid and heroin users in a Canadian multi-site cohort of illicit opioid and other drug users. *Drug & Alcohol Review*.
- Grebely, J., Genoway, K., Raffa, J., Dhadwal, G., **Kalousek, K.**, **Fischer, B.**, et al. (2008). Barriers associated with the treatment of Hepatitis C virus infection among illicit drug users. *Drug and Alcohol Dependence*, 93(1/2), 141–147.
- Harvard, S. S., Hill, W. D., & **Buxton, J. A.** (In Press). Harm reduction product distribution in British Columbia. *Canadian Journal of Public Health*.
- Koehn, C.V., & **Hardy, C.** (2007). Substance dependence and depression in women: Implications for treatment. *Guidance and Counselling*, 21, 274–282.

- Lucas, P.** (2008). Regulating compassion: An overview of Health Canada's medical cannabis policy and practice. *Harm Reduction Journal*, 5, 5.
- Lucas, P.** (In Press). Moral regulation and the presumption of guilt in Health Canada's medical cannabis policy and practice. *International Journal of Drug Policy*.
- Macdonald, S., Erickson, P., Wells, S., Hathaway, A., & Pakula, B.** (2008). Predicting violence among cocaine, cannabis, and alcohol treatment clients. *Addictive Behaviours*, 33, 201–205.
- Macdonald, S., Mann, R., Chipman, M., Pakula, B., Erickson, P., Hathaway, A., et al.** (2008). Driving behavior under the influence of cannabis or cocaine. *Traffic Injury Prevention*, 9, 3.
- Macdonald, S., Zhao, J., Pakula, B., Stockwell, T., & Martens, L.** (In Press). Unlocking patterns of alcohol consumption in BC using alcohol sales records: A foundation for public health monitoring. *Contemporary Drug Problems*.
- Manzoni, P., **Fischer, B.**, & Rehm, J. (2007). Local drug-crime dynamics among a multi-site sample of untreated illicit opioid users. *Canadian Journal of Criminology and Criminal Justice*, 49(3), 341–374.
- Millson, P., Challacombe, L., Villeneuve, P., Strike, C., **Fischer, B.**, Myers, T., et al. (2007). Reduction in injection-related HIV risk after six months in needle-exchange based low threshold methadone treatment. *AIDS Education and Prevention*, 19(2), 124–136.
- Monga, N., Rehm, J., **Fischer, B.**, Brissette, S., Brochu, S., Bruneau, J., et al. (2007). Use of latent class analysis (LCA) to analyze patterns of drug use in a population of illicit opioid users. *Drug and Alcohol Dependence*, 88(1), 1–8.
- Pakula, B., Macdonald, S., & Stockwell, T.** (In Press). Settings and functions related to simultaneous use of alcohol with marijuana or cocaine in substance use treatment clients. *Substance Use and Misuse*.
- Pankratz, N.** (2007). All about benzos. *Visions: BC's Mental Health and Addictions Journal*, 4(2), 10–11.
- Rehm, J., & **Fischer, B.** (2008). Should heroin be medically prescribed to heroin misusers? *British Medical Journal*, 336, 70.
- Rehm, J., Baliunas, D., Brochu, S., **Fischer, B.**, Gnam, W., Patra, J., et al. (2007). The social costs of substance abuse in Canada 2002. *Journal of Studies on Alcohol and Drug*, 68(6), 886–895.
- Segal, D., & Stockwell, T.** (In Press). Low alcohol alternatives: A promising strategy for reducing alcohol related harm. *International Journal of Drug Policy*.
- Stockwell, T.** (2007). A cross-cutting research agenda on alcohol, tobacco and other drugs: where to start? *Addiction*, 102(8):1191–1192.
- Stockwell, T., Chikritzhs, T., Bostrom, A., Fillmore, K., Kerr, W., Rehm, J., et al.** (2007). Alcohol-caused mortality in Australia and Canada: Scenario analyses using different assumptions about cardiac benefit. *Journal of Studies on Alcohol*, 68(3), 345–352.
- Stockwell, T.** (2008). A hard natural experiment to fathom: A testament to the increasing difficulty of conducting reliable surveys? *Addiction*, 103(2), 192–193.
- Stockwell, T., Buxton, J. A., Duff, C., Marsh, D., Macdonald, S., Michelow, W., et al.** (In Press). The BC alcohol and other drug monitoring system: Overview and early progress. *Contemporary Drug Problems*.
- Stockwell, T., Zhao, J., & Thomas, G.** (In Press). Should alcohol policies aim to reduce total

alcohol consumption? New analyses of Canadian drinking patterns. *Addiction Research and Theory*.

Thomas, G. (2008, February 16). A state of radical grace [Review of the book *Into the realm of hungry ghosts: Close encounters with addiction*]. *The Vancouver Sun*.

Werb, D., Elliott, R., **Fischer, B.**, Wood, E., Montaner, J., & Kerr, T. (2007). Drug treatment courts in Canada: An evidence-based review. *HIV/AIDS Law and Policy Review*, 12(2/3), 12–17.

Books

Boyd, S., & Marcellus, L. (2007). (Eds.). *With Child, Substance Use During Pregnancy: A Woman-Centred Approach*. Halifax: Fernwood.

Boyd, S. (2008). *Hooked: Drug War Films from Britain, Canada and the U.S.* New York: Routledge.

Cherpitel, C., Poznyak, V., Borges, G., Giesbrecht, N., Hungerford, D., **Stockwell, T.**, et al. (Eds.). (In Press). *Alcohol and Injuries: Emergency Department Studies in an International Perspective*. Geneva: WHO.

Stockwell, T. (Ed.). (In Press). *International Guide for Monitoring Alcohol Consumption and Related Harm (2nd ed.)*. Geneva: WHO/MSD/MSB.

Book chapters

Boyd, S. (2007). Women, drug regulation, and maternal/state conflicts. In Morrow, M., Hankivsky, O., & Varcoe, C. (Eds.), *Women's Health in Canada: Critical Perspective on Theory and Policy* (pp. 327–354). Toronto: University of Toronto Press.

Boyd, S. (2007). The journey to compassionate care. In **Boyd, S.** & Marcellus, L. (Eds.), *With Child, Substance Use During Pregnancy: A Woman-Centred Approach* (pp. 10–19). Halifax: Fernwood.

Boyd, S. (2007). Drug scares and practice: Socio-historical considerations. In **Boyd, S.** & Marcellus, L. (Eds.), *With Child, Substance Use During Pregnancy: A Woman-Centred Approach* (pp. 20–27). Halifax: Fernwood.

Koehn, C. V., & **Hardy, C.** (2007). Depression and problem substance use in women. In Poole, N. Greaves, L. (Eds.), *Highs and Lows: Canadian Perspectives on Women and Substance Use*. Toronto: Centre for Addiction and Mental Health.

Lucas, P. (In Press). The community-based research of cannabis: A patient-centered, public health approach. In Holland, J. (Ed.), *Medical Marijuana*.

Monteiro, M. G., Rehm, J, Taylor, B., & **Stockwell, T.** (In Press). International trends in alcohol consumption, *Encyclopedia of Public Health* (MS number: 359). Amsterdam: Elsevier.

Stockwell, T., Macdonald, S., & Sturge, J. (In Press). Surveillance and monitoring alcohol-related injury in the ED. In Cherpitel, C., Poznyak, V., Borges, G., Giesbrecht, N., Hungerford, D., Peden, M., et al. (Eds.), *Alcohol and Injuries: Emergency Department Studies in an International Perspective* Geneva: WHO.

Papers, commissioned reports & other

Brubacher, J. R., Purssell, R. A., Brown, D., Abu-Laban, R. B., Fang, M., Mac, E, et al. (2007).

Impaired driving interventions: Don't forget the passengers. Paper presented at the Canadian Association of Emergency Physicians Conference, Victoria, Canada.

BC Alcohol and Other Drug Monitoring Project Group. (2007). *BC pilot alcohol and other drug monitoring project: Overview and progress report.* Report commissioned by BC Mental Health and Addiction Services, PHSA and Health Canada.

Clemens, S., Donath, S., **Stockwell, T.**, & Chikritzhs, T. (2007). *Alcohol consumption in Australia: National surveys from 1989 to 2005.* Report commissioned by the National Drug Research Institute, Curtin University of Technology, Australia.

Fischer, B., & Allard, C. (2007). *Feasibility study on 'supervised drug consumption' options in the City of Victoria.* Report commissioned by the Vancouver Island Health Authority.

Rush, B., & **Thomas, G.** (2007) Performance monitoring and evaluation for substance abuse treatment in Canada. A report to the Canadian Executive Council on Addictions for the National Treatment Strategy Working Group.

Thomas, G., Dyck, T and Reist, D. (2007). *Learning and promising practices for addressing harm from alcohol and tobacco use among seniors (65+) in British Columbia.* Commissioned by the BC Ministry of Health.

Thomas, G., & Reist, D. (2007). *Recommended practices for educating about and enforcing smoke-free laws and retail display bans for tobacco: A review of Canadian and international practices.* Commissioned by BC Ministry of Health.

CARBC publications

Anderson, J. F. (2007, Spring). Screening and Brief Intervention for Hazardous Alcohol Use. *The Link—Newsletter for the Centre for Addictions Research of BC*, 3(1), 1.

Reist, D., Ripley, L., & Pankratz, N. (2007). *The road ahead: A guidebook for parents of young teens.* Funded by PHSA and distributed by BC Council of Families.

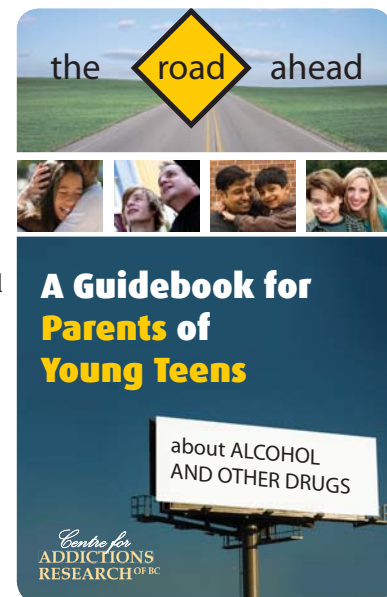
Segal, D., & Stockwell, T. (2007). *Low alcohol alternatives: A promising strategy for reducing alcohol-related harm.* CARBC Technical Report.

Stockwell, T., Pakula, B., Macdonald, S., Buxton, J., Zhao, J., Tu, A., et al. (2007). *Alcohol consumption in British Columbia and Canada: A case for liquor taxes that reduce harm.* CARBC Statistical Bulletin #3.

Invited presentations

Anderson, J. F. and Kelly, M. (2007, October). Promising prevention strategies. Paper presented at the Honour Your Health Challenge, Vancouver, Canada.

Boyd, S. (2007, April). *Illegal drug films: Representations of the other.* Human and Social Development Spring Research Day. Research Spaces in Human and Social Development. University of Victoria, Victoria, Canada.



- Boyd, S.** (2008, March) Safer Crack Use, Outreach, Research and Education (SCORE) Community Forum, First United Church, Vancouver, Canada.
- Buxton, J. A.,** Mehrabadi, A., Preston, E., Tu, A., & the Canadian Community Epidemiology Network on Drug Use, Vancouver site committee. (2007, May). *Local drug use epidemiology; Lessons and implications for broader comparisons.* Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Buxton, J. A.,** & Tu, A. (2007, May). *Tracking trends of alcohol and other substance use through mortality and morbidity data.* Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Fischer, B.,** Paterson, B., Getty, G. & Dykeman, M. (2007, April). *New Brunswick results of a Canadian cohort of illicit opioid users.* Toronto, Canada.
- Fischer, B.** (2007, June). *Street drug use in Victoria: Indicators, challenges for public health and intervention needs.* Victoria, Canada.
- Fischer, B.** (2007, July). *Prescription opioid abuse in Canada: Epidemiology, harms and interventions needed for public health.* Burnaby, Canada.
- Fischer, B.** (2007, September). *Hepatitis C Virus (HCV) infection and illicit drug use in Canada: Epidemiology, interventions and public health.* Hamburg, Germany.
- Fischer, B.,** Patra, J. & Rehm, J. (2007, October). *Identifying typologies of poly-substance use in a multi-site cohort of illicit opioid and other drug users: A latent class analysis (LCA).* Ottawa, Canada.
- Grebely, J., Joeques, E., Raffa, J., Genoway, K., Showler, G., **Kalousek, K.,** et al. (2007, April). *Uptake of treatment for Hepatitis C Virus (HCV) infection among HCV-infected illicit drug users.* Toronto, Canada.
- Genoway, K., Grebely, J., Joeques, E., Raffa, J., Showler, G., **Kalousek, K.,** et al. (2007, April). *Factors associated with willingness to receive treatment for Hepatitis C Virus (HCV) Infection among HCV-infected illicit drug users.* Toronto, Canada.
- Linden, R., Mann, R., Smart, R., Asbridge, M., **Fischer, B., Macdonald, S.,** et al. (2007, May). *Automobile-linked crime in Canada.* Hamilton, Canada.
- Macdonald, S.,** Cherpitel, C., DeSouza, A., **Stockwell, T.,** Borges, G., & Giesbrecht, N. (2007, May). *Variations of alcohol impairment in different types, causes and contexts of injuries: Results of emergency room studies from sixteen countries.* Paper presented at public seminar at the University of Victoria, Victoria, Canada.
- Macdonald, S., Zhao, J., Pakula, B., & Stockwell, T.** (2007, May). *Changes in alcohol consumption over time and differences across geographic areas in British Columbia.* Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Macdonald, S.,** Mann, R., Chipman, M., **Pakula, B.,** Erickson, P., Hathaway, A., et al. (August, 2007). *Driving behaviour under the influence of cannabis and cocaine.* Seattle, USA.
- Macdonald, S.** (2007, October). *Cannabis and injuries.* Paper presented at public seminar at the University of Victoria, Victoria, Canada.
- Macdonald, S.** (2007, December). *Alcohol consumption in BC.* Paper presented at public seminar at the University of Victoria, Victoria, Canada.
- Macdonald, S.** (2008, March). *Substance use measures. Measurement matters: A day of*

training in clinical research measures. Paper presented at public seminar at the University of Victoria, Victoria, Canada.

- Michelow, W., & Buxton, J. A.** (2007, May). Towards a street drug early warning system: Progress and challenges. Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Patra, J., **Fischer, B.**, & Rehm, J. (2007, May). Identifying typologies of poly-substance use in a multi-site cohort of illicit opioid and other drug users—a Latent Class Analysis (LCA). Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Reist, D.**, & Coleridge P. (2007, June). *Improving Practice through Knowledge Exchange.* Paper presented to the National Treatment Strategy Working Group, Toronto, Canada.
- Reist, D.** (2007, November). *A Philosophical Foundation for Promising Practices in Addressing Homelessness.* Paper presented at Thompson Rivers University, Kamloops, Canada.
- Reist, D.** (2008, March). *Rethinking Treatment.* Paper presented at the Keeping the Door Open Symposium on Treatment, Vancouver, Canada.
- Souza, E.** (2008, March). *Alcohol reality check.* Display and information presented during Alcohol Awareness Day at Langara College, Vancouver, Canada.
- Stockwell, T., Buxton, J. A.,** Chow, C., Cohen, I., Corrado, R., **Duff, C.**, et al. (2007, May). *The BC alcohol and other drug monitoring system: An overview and early findings.* Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Stockwell, T.** (2007, May). *Preventing harmful substance use: The evidence base for policy and practice.* Paper presented at the Alcohol and Drug Abuse Research Unit, Medical Research Council, Cape Town, South Africa.
- Stockwell, T.** (2007, May). *25 years of alcohol and drug research in three countries.* Paper presented at the Alcohol and Drug Abuse Research Unit, Medical Research Council, Cape Town, South Africa.
- Stockwell, T., Zhao, J.,** Chikritzhs, T., & Greenfield, T. (2007, May). *What did you drink yesterday? Public health relevance of a recent recall method used in the 2004 Australian National Drug Strategy Household Survey.* Paper presented at Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Stockwell, T.** (2007, September). *Alcohol taxes/prices: How can they be used as harm reduction strategies?* and *Alcohol—Canada's favourite drug: a population level perspective on risks, damage, challenges and policy responses.* Papers presented at a pre-conference workshop at the Canadian Public Health Association 98th Annual Conference, Ottawa, Canada.
- Stockwell, T.** (2007, October). *Does Canada have a monopoly on the best alcohol control policies? A comparison of Australian and Canadian approaches to liquor regulation.* Keynote address at the 4th Australasian Drug Strategy Conference, Brisbane, Australia.
- Stockwell, T.** (2007, October). *The BC alcohol and other drug monitoring system: Overview and early progress.* Presented at the 4th Australasian Drug Strategy Conference, Brisbane, Australia.
- Stockwell, T.** (2007, November). *Workshop on prevention of substance use disorders.* Paper

presented at the First International Workshop on Substance Abuse—Valencia, World Health Organization and the Valencian Autonomous Government, Valencia, Spain.

Stockwell, T. (2007, November). *Monitoring alcohol and drug related harms in populations.* Paper presented at the First International Workshop on Substance Abuse—Valencia, World Health Organization and the Valencian Autonomous Government, Valencia, Spain.

Stockwell, T. (2007, November). *Prevention of substance use and dependence.* Paper presented at the First International Workshop on Substance Abuse—Valencia, World Health Organization and the Valencian Autonomous Government, Valencia, Spain.

Thomas, G. (2008, March). Four Pillars Coalition Meeting, Italian Cultural Centre, Vancouver, Canada.

Other conference and seminar presentations

Barnes, G. E. (2007, October). *Substance use trajectories in youth from biological and adoptive families.* Paper presented at the Transitioning into Adulthood Conference, Victoria, Canada.

Boyd, S., & Carter, C. (2007, June). *Methamphetamine discourse: Media, law, and policy.* Paper presented at the Canadian Federation for the Humanities and Social Sciences Annual Congress, University of Saskatchewan, Saskatoon, Canada.

Boyd, S. (Chair and panel organizer) (2007, June). *The City.* Paper presented at the Canadian Federation for the Humanities and Social Sciences Annual Congress, University of Saskatchewan, Saskatoon, Canada.

Boyd, S. (2007, December). Women, poverty and drugs: Lessons from the past and future considerations. Pregnant women: Another casualty of the drug war. Paper presented at the International Drug Policy Reform Conference, New Orleans, USA.

Brown, D., Purssell, R. A., **Brubacher, J. R.**, Fang, M., Mac, E., Schulzer, M., et al. (2007). *Injuries sustained in a MVC do not prevent subsequent impaired driving.* Paper presented at the Canadian Association of Emergency Physicians Conference, Victoria, Canada.

Brown, D., Purssell, R. A., **Brubacher, J. R.**, Abu-Laban, R.B., Wilson, R.J., Fang, M., et al. (2007). *Future impaired driving activities of injured motor vehicle drivers requiring a hospital visit.* Presented at the International Council on Alcohol, Drugs and Traffic Safety Conference, Seattle, USA.

Buxton, J. A., & Mehrabadi, A. (2007, November). *Challenges of methadone access in British Columbia.* Poster presentation presented at the Issues of Substance Conference, Edmonton, Canada.

Capler, R. (2007, December). *Reconciling regulations for medical cannabis use within an abstinence-based policy framework.* Paper presented at the International Drug Policy Reform Conference, New Orleans, USA.

David, C., **Thomas, G., & Jesseman, R.** (2007, November). *Drawing the line on the risky use of cannabis: Assessing problematic use with the ASSIST.* Paper presented at the Issues of Substance Conference, Edmonton, Canada.

Harvard, S., & **Buxton, J. A.** BC Harm Reduction Supply Services Committee. (2007, November). *More than just needles: An evidence-informed approach to enhancing harm reduction supply distribution in BC.* Poster presentation presented at the Issues of Substance Conference, Edmonton, Canada.

- Jansson, M., Barnes, G. E., & Benoit, C.** (2007, November). *Introduction to substances: Street-involved youth*. Paper presented at the Issues of Substance Conference, Edmonton, USA.
- Jesseman, R., & **Thomas, G.** (2007, October). *Substance abuse and corrections in Canada: An environmental scan*. Paper presented at the 19th Annual Canadian Society of Addiction Medicine Scientific Conference, Ottawa, Canada.
- Jesseman, R., & **Thomas, G.** (2007, November). *Substance abuse and corrections in Canada: An environmental scan*. Paper presented at the Issues of Substance Conference, Edmonton, Canada.
- Macdonald, S., Mann, R., Chipman, M., Pakula, B., Erickson, P., Hathaway, A., et al.** (2007, August). *Driving behaviour under the influence of cannabis and cocaine*. Paper presented at the International Conference on Alcohol, Drugs and Traffic Safety, Seattle, USA.
- Macdonald, S., Zhao, J., Pakula, B., & Stockwell, T.** (2007, May). *Changes in alcohol consumption over time and differences across geographic areas in British Columbia*. Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to Support Better Policy—An International Symposium, Victoria, Canada.
- Macdonald, S., Zhao, J., Pakula, B., & Stockwell, T.** (2007, June). *The relationship between alcohol consumption, demographics and alcohol related outcomes in British Columbia*. Paper presented at the 32nd Annual Symposium Kettil Bruun Society for Social and Epidemiological Research on Alcohol, Budapest, Hungary.
- Macdonald, S.** (2007, November). Towards a model for monitoring patterns of drug use and related harms in Canada: Early outcomes from the BC pilot alcohol and other drug monitoring project. Paper presented at the Issues of Substance Conference, Edmonton, Canada.
- Macdonald, S.** (2007, December). *Alcohol consumption in BC*. Paper presented at public seminar “Low alcohol versus regular strength beer: Can you tell the difference?” at the University of Victoria, Victoria, Canada.
- Nixon, M. K., **Barnes, G. E., Cloutier, P., & Kucharski, A.** (2007, September). *Correlates and predictors of non-suicidal self-harm in youth: A population based study*. Paper presented at the 27th Annual Conference, Canadian Academy of Child and Adolescent Psychiatry, Montreal, Canada.
- Reist, D.** (2007, November). *The Quest for a Model to Understand the Scope of Substance-Related Harm and Appropriate Responses*. Paper presented at the Issues of Substance conference, Edmonton, Canada.
- Reist, D.** (2008, January). *Tobacco Reduction in the Context of Addictions Treatment*. Paper presented at the Association of Substance Abuse Programs (ASAP) conference, Burnaby, Canada.
- Stockwell, T., Zhao, J., Chikritzhs, T., & Greenfield, T.** (2007, June). *What did you drink yesterday? Public health relevance of a recent recall method used in the 2004 Australian National Drug Strategy Household Survey*. Paper presented at the 32nd Annual Symposium Kettil Bruun Society for Social and Epidemiological Research on Alcohol, Budapest, Hungary.
- Stockwell, T., Buxton, J. A., Duff, C., Marsh, D., Macdonald, S., & Saewyc, E.** (2007, November). *Towards a model for monitoring patterns of drug use and related harms in Canada*. Paper presented at the Issues of Substance Conference, Edmonton, Canada.
- Stockwell, T.** (2007, November). *Problems of intoxication: Responding to acute alcohol-related harm in Canada*. Paper presented at the Issues of Substance Conference, Edmonton,

Canada.

Stockwell, T. (2007, November). *Towards a model for monitoring patterns of drug use and related harms in Canada: Early outcomes from the BC pilot alcohol and other drug monitoring project.* Paper presented at the Issues of Substance Conference, Edmonton, Canada.

Thomas, G. (2007, May). *Progress toward a Canadian addiction treatment monitoring system.* Paper presented at the Monitoring Alcohol and Other Drug Related Harm: Building Systems to support Better Policy—An International Symposium, Victoria, Canada

Thomas, G. (2007, May). *Background paper on performance monitoring treatment indicators.* Paper presented at the 1st Meeting of the National Treatment Strategy Working Group, Vancouver, Canada.

Thomas, G. (2007, October). *Reconceptualizing addictions: Does the absence of deep healing explain the need for lifelong abstinence in those treated for addictive disorders?* Paper presented at the 19th Annual Canadian Society of Addiction Medicine Scientific Conference, Ottawa, Ontario.

Thomas, G. (2007, October). *A recommended national alcohol strategy for Canada: Implications for addiction medicine.* Paper presented at the 19th Annual Canadian Society of Addiction Medicine Scientific Conference, Ottawa, Canada.

Thomas, G., & Jesseman, R. (2007, November). *Substance abuse and corrections in Canada: An environmental scan.* Paper presented at the Issues of Substance Conference, Edmonton, Canada.

Media—Monthly newspaper columns

Pankratz, N. (2007, June). *Climate crisis is good for us from an addictions point of view.* Published in 8 community newspapers. BC Ministry of Children and Family Development asked for article to be reprinted for one year on their work-life balance website: www.worklifebc.ca.

Pankratz, N. (2007, July). *Homicide stats on injection drug users reveal larger questions about society.* Published in 3 community newspapers and on MAP Inc.

Pankratz, N. (2007, August). *Drug prevention starts at home and it starts early.* Published in 2 community newspapers and on Map Inc.

Pankratz, N. (2007, September). *Transition back to school means parents have to really “be there” for kids.* Published in 6 community newspapers.

Pankratz, N. (2007, November). *Think about why you drink, not just what you drink.* Published in 5 community newspapers.

Pankratz, N. (2007, December). *‘Tis the season to stay sober.* Published in 1 community newspaper.

Pankratz, N. (2008, January). *Letting go of need to control life may be first step in letting go of vices.* Published in 2 community newspapers.

Pankratz, N. (2008, March). *New season calls for new understanding of substance use scene.* Published in 2 community newspapers and quoted in 2 online forums.

Reist, D. (2007, April). *Prescription drugs are part of the problem.* Published in 1 community newspaper, reprinted on MAP Inc. and debated on 1 online forum.

Media coverage

Story/Topic	Print	TV	Radio	On-line	Totals
Alcohol—Other	29	1	8	2	40
Alcohol health benefits	8	1	8		17
Alcohol tax	13		10		23
Crack pipes	28		15	4	47
Drug policy	27	2	8	2	39
Drug testing	16		3		19
Harm reduction	10				10
Homelessness	5				5
Intravenous drug use	6		3	1	10
Low alcohol drinks	12	3	7		22
Marijuana	27		12	2	41
Methamphetamine	2				2
Opioids & prescription drugs	17		12	3	33
Overdose	3		6		9
Policing	11		3		14
Public health & illicit drugs	12				12
Supervised injection sites	47		10	4	61
Teen substance use	16		2	1	19
Tobacco	4			1	5
Miscellaneous	50		5	1	56
Totals	343	7	112	21	484

Table 3: Performance Indicators for Key Results Area 3

Objective		Performance indicators for 2007-08
3.1	Disseminate research findings to policy makers, practitioners, public health professionals, other researchers, community interest groups and the general public.	<ul style="list-style-type: none"> • 11 BC and national policy committee memberships (8 in 2006-07; 3 in 2005-06) • 14 reviews of evidence for effectiveness for different types of intervention and policy (14 in 2006-07; 7 in 2005-06) • 28 new resources developed by CARBC and made available on-line and in print (13 in 2006-07; 28 in 2005-06)
3.2	Publish research findings in articles in peer-reviewed journals.	<ul style="list-style-type: none"> • 43 articles published by CARBC researchers in peer reviewed journals (35 in 2005-06; 15 in 2006-07)
3.3	Publish research findings in book chapters, books, research monographs and technical reports.	<ul style="list-style-type: none"> • 2 books (1 in 2006-07), 7 book chapters (1 in 2006-07; 2 in 2005-06), 1 bulletin (1 in 2006-07; 1 in 2005-06), and 6 technical and other reports published by CARBC researchers (11 in 2006-07; 2 in 2005-06)

Objective		Performance indicators for 2007–08
3.4	Achieve a high academic impact for BC addictions related research so that it is well-known, frequently requested and often cited.	<ul style="list-style-type: none"> • 317 citations in peer reviewed journals in 2007 of research on substance use issues by CARBC researchers (353 in 2006; 244 in 2005)
3.5	Provide balanced, factual information on drug-related harms and prevention approaches through a variety of knowledge exchange strategies including media releases and the internet.	<ul style="list-style-type: none"> • 343 articles in the print media (407 in 2006–07; 160 in 2005–06), 21 on-line (35 in 2006–07; 28 in 2005–06), and 140 interviews used by the electronic media (26 in 2006–07; 25 in 2005–06). • 2 CARBC newsletters (2 in 2006–07; 2 in 2005–06) • 18 articles from CARBC in magazines, newsletters, websites, and unrefereed journals (14 in 2006–07; 5 in 2005–06) • 3616 orders for information products were responded to by the CARBC resource centre (5651 in 2006–07; 658 in 2005–06)
3.6	Conduct seminars, lectures and occasional conferences on the state of knowledge and its application to policy, practice and the research agenda.	<ul style="list-style-type: none"> • 5 public research seminars (10 in 2006–07; 9 in 2005–06), 1 national symposium convened or co-convened by CARBC (1 in 2006–07; 1 in 2005–06) and 2 international symposia (1 in 2006–07; 0 in 2005–06) • 36* invitations to CARBC researchers were accepted to present at conferences and symposia (32 in 2006–07; 45 in 2005–06) of which 19 were held in BC (12 in 2006–07; 25 in 2005–06), 10 were national (12 in 2006–07; 13 in 2005–06) and 16 were international (10 in 2006–07; 7 in 2005–06) • 25* papers accepted for conference presentations from CARBC researchers and students (21 in 2006–07; 17 in 2005–06) of which 7 were held in BC (6 in 2006–07; 3 for 2005–06), 9 were national (6 in 2006–07; 7 for 2005–06), and 8 were international (11 in 2006–07; 7 for 2005–06) conferences. <p>*NB International meetings held in BC counted in each category.</p>
3.7	Contribute to teaching programs on substance use and addictions for undergraduate and graduate courses/programs.	<ul style="list-style-type: none"> • 5 courses in which addictions issues were taught by CARBC members at UVic (4 in 2006–07; 3 in 2005–06) • 1 course in which addictions issues were taught by CARBC members at other campuses (6 in 2006–07; 1 in 2005–06)

	Objective	Performance indicators for 2007-08
3.8	<p>Cultivate communities of practice that disseminate knowledge among policy makers, practitioners, public health professionals, researchers, community interest groups and the general public in order to increase awareness of drug related harms and effective prevention strategies.</p>	<ul style="list-style-type: none"> • CARBC personnel are represented on the following 10 networks active in BC (8 in 2006-07; 4 in 2005-06) which link researchers, policy makers, practitioners, and members of the wider community with the aim of disseminating knowledge on substance use and addiction: <ul style="list-style-type: none"> ○ BC Mental Health & Addiction Research Network ○ BC Partners for Mental Health and Addictions Information ○ BC Addictions Network ○ Keeping the Door Open ○ BC AOD Monitoring Project Group ○ CARBC Program Committee ○ IMPART ○ CIHR NET Grant on Cross-Substance Studies ○ BC Centre for Disease Control group concerned with injecting drug use and infectious diseases ○ Vancouver CCENDU

Key Results Area 4

“To contribute to the implementation of evidence-based policy and practice.”

Highlights

Conducting research which has immediate relevance to local decision-makers and practitioners is a core part of the CARBC mission. There were several examples during 2007–08 of CARBC research having direct impact on the policy-making process:

- Several converging lines of research on alcohol-related harm, drink prices and alcoholic beverage strength led to a submission made jointly with the BC Provincial Health Officer, Dr. Perry Kendall, to the Ministry of Finance and also the BC Select Committee on Finance and Government Services to adopt a policy of taxing alcohol according to alcohol content. The latter committee strongly endorsed the proposal, which was forwarded to the Ministry of Finance for consideration for the 2008–09 budget.
- A study by Dr. Fischer demonstrating the possibility that sharing crack pipes could lead to the transmission of hepatitis C was directly taken up by the Vancouver Island Health Authority as well as some other health groups elsewhere in Canada, and used to justify the provision of safe crack use kits. Dr. Fischer’s study on the feasibility of a safe drug consumption site in Victoria was endorsed by the City of Victoria and a number of BC decision-makers, and may still be used to prepare a submission to the federal government.
- The Communication and Resource Unit worked closely with decision-makers in key ministries to create evidence-based advice papers containing recommendations on tobacco regulation, interventions for substance use among the elderly and the management of tobacco use in mental health facilities.

Committee Memberships

Anderson, J. F. Member, Advisory Committee on Opioid Dependence, College of Physicians and Surgeons of BC.

Anderson, J. F. Member, Addictive Diseases Committee, BC Medical Association.

Boyd, S. Member, National Coordination and Advisory Committee for the National Research Agenda for Substance Use and Abuse, Health Canada. Two-year membership starting March 2006.

Fischer, B. Member, Scientific Institutional Advisory Board, Institute for Neuroscience, Mental Health and Addictions, Canadian Institutes of Health Research.

Fischer, B. Member, Scientific Committee, Canadian Mental Health Commission.

Macdonald, S. Member, BC Workplace Mental Health and Addictions Scientific Committee.

Reist, D. Member, National Advisory Group on Workforce Development, Canadian Centre on Substance Abuse.

Reist, D. Member, National Treatment Strategy Working Group. National policy group formed jointly by the Canadian Centre on Substance Abuse, the Centre for Addictions and Mental Health and BC Mental Health and Addiction Services.

Reist, D. Member, Keeping the Door Open: Dialogues on Drug Use. Multi-stakeholder coalition of leaders and organizations addressing substance use in BC.

Reist, D. Co-chair, BC Addictions Network. Network of policy and practice leaders formed to engage in joint planning, action and knowledge exchange, and to advise the BC Mental Health and Addictions Planning Council on matters related to substance use.

Reist, D. Member, Canadian Executive Council on Addictions.

Reist, D. Member, BC Partners for Mental Health & Addiction Information, a coalition committed to improving mental health literacy in BC and supported by BC Mental Health and Addiction Services.

Reist, D. Member, Kaiser Foundation Board of Directors.

Reist, D. Member, Action on Addictions Advisory Committee, Vancouver Foundation.

Reist, D. Member, Vancouver Youth Prevention Network, Vancouver Coastal Health.

Stockwell, T. Co-chair with Dr. Bill Honer (UBC), BC Mental Health and Addictions Research Network Network Planning and Advisory Committee.

Stockwell, T. President of Kettil Bruun Society for Social and Epidemiological Research at the Alcohol Annual Symposium, Riverside CA. and chair of the coordinating committee.

Stockwell, T. Member of National Surveillance Advisory Committee. Organized by the Office of Research and Surveillance, Drug Strategy and Controlled Substances Program, Health Canada.

Stockwell, T. Member of National Alcohol Strategy Working Group. National policy committee formed jointly by Health Canada, CECA and CCSA.

Stockwell, T. Member of Canadian Executive Council on Addictions.

Stockwell, T. Member, Advisory Board for the Kaiser Foundation National Awards for Excellence.

Thomas, G. Chair of Local Organizing Committee, Canadian Society of Addiction Medicine, 19th Annual Scientific Meeting (October 11–13, 2007).

Thomas, G. Member of Secretariat, National Treatment Strategy Working Group (2006–2008)

Consultations

CARBC conducted a number of consultancies with provincial, national and international bodies in 2007–08. These bodies including the following:

- Alberta Alcohol and Drug Abuse Commission
- Canadian Human Rights Commission
- Department of Mental Health and Substance Dependence, Non-Communicable Diseases and Mental Health Cluster, World Health Organization
- International Union of Operating Engineers
- Social Responsibility Unit, Alberta Gaming and Liquor Commission
- UK Department of Health—National Institute of Health Research, in association with the School of Health and Related Research, University of Sheffield, and
- Versacold

These consultancies have contributed directly to the implementation of prevention strategies and policies. Some examples involve violence prevention around licensed venues in Alberta, patterns of service delivery, and consideration of new alcohol pricing and taxation in other countries

Table 4: Performance Indicators for Key Results Area 4

Objective		Performance indicator 2007–08
4.1	Plan the evaluation of new public health and safety measures designed to minimise harms from substance use and gambling prior to their implementation.	<ul style="list-style-type: none"> • 5 relevant CARBC studies include: feasibility for safe consumption sites; a review of BC tobacco policy; a brief intervention for alcohol and depression in general practice; contributions to the new National Alcohol Strategy; development of epidemiological monitoring data sets; access to treatment for people with hep C. (7 in 2006–07; 3 in 2005–06)
4.2	Work in partnership with policy makers and practitioners in the planning, execution and dissemination of some applied research projects.	<ul style="list-style-type: none"> • 17 projects involved policy makers and/or practitioners in planning, execution and/or dissemination (24 in 2006–07)
4.3	Increase the probability of research findings from CARBC, its partners and other related sources being applied to policy and practice development at national, provincial and local community levels.	<ul style="list-style-type: none"> • CARBC has contributed towards 7 significant policy proposals (5 in 2006–07; 2 in 2005–06)
4.4	Provide regular briefings and submissions to government and parliamentary inquiries, policy advisors and relevant provincial and national committees on emerging issues in the prevention of drug-related harms.	<ul style="list-style-type: none"> • 5 invitations received to make submissions to policy forums, select committees, or other such bodies (6 in 2006–07; 5 in 2005–06) • Membership of 23 BC and national policy committees concerned with substance use and addictions (12 in 2006–07; 5 in 2005–06)
4.5	Compete for commissioned research opportunities with the potential to make direct contributions to the development of new policies, programs and service delivery systems.	<ul style="list-style-type: none"> • 8 successful submissions in response to requests of CARBC members for commissioned work in relevant areas (8 in 2006–07; 11 in 2005–06) • 7 commissioned projects undertaken and completed (8 in 2006–07; 8 in 2005–06) • \$1.72 m successfully secured for commissioned research and knowledge exchange activities (\$1.55 million in 2006–07; \$1.63m in 2005–06)

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