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# Smoking on the Margins: An Equity Analysis of the Outcomes of an Outdoor Smoke-free Policy

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### <u>Smoking on the Margins</u> An Equity Analysis of the Outcomes of an Outdoor Smoke-free Policy

Chizimuzo Okoli and Ann Pederson, Co-PAs



The British Columbia Centre of Excellence for Women's Health is committed to improving the health of women

### **Project Overview**



- Purpose: To analyze the health and health equity impact of the newly implemented smoke-free policy for Vancouver's parks and beaches
- CIHR Operating Grant: Population Health Intervention Research – designed to study an intervention in action not controlled by the investigators
- End date of funding, March 31, 2013 (with potential 12-month extension)



# **Project Team**

#### **Co-Principal Applicants:**

- Dr Chizimuzo Okoli, Kentucky Center for Smoke-free Policy, University of Kentucky
- Ann Pederson, BC Centre of Excellence for Women's Health

**Co-Applicants:** 

- Dr Joan Bottorff, Institute for Healthy Living and Chronic Disease Prevention, UBC Okanagan
- Dr Lorraine Greaves, BC Centre of Excellence for Women's Health
- Natalie Hemsing, BC Centre of Excellence for Women's Health
- Nancy Poole, BC Centre of Excellence for Women's Health
  Project Staff
- Wendy Rice, Research Coordinator, BC Centre of Excellence for Women's Health





Institute for Healthy Living and Chronic Disease Prevention

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British Columbia Centre of Excellence for Women's Health

### **Collaborators and Partners**

- Jack Boomer, Clean Air Coalition of BC
- Dr Ellen J Hahn, Kentucky Center for Smoke-free Policy and University of Kentucky
- Tom Heah, Vancouver Coastal Health Authority Mental Health Services
- Dr Andrew Johnson, University of Kentucky College of Public Health
- Milan Khara, Vancouver Coastal Health Addictions and Metal Health Services



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### **Collaborators and Partners cont.**

- Deborah McLellan, International Network of Women Against Tobacco
- Thomas Soulliere, Vancouver Board of Parks and Recreation
- Christina Tonella, Vancouver Coastal Health Tobacco Reduction Strategy









# **Project Objectives**

- To understand the **health and health equity effects** of Vancouver's new smoke-free policy in parks and on beaches.
- To assess the **differential impact of the policy** for diverse groups of women and men, in particular those with a high prevalence and susceptibility to smoking and SHS exposure.
- To understand how **social, economic and environmental factors influence** women and men's capacity to manage SHS exposure and tobacco use in parks and on beaches, and their **compliance** with the policy.
- To **develop recommendations** to refine future smoke-free policies to enhance their effectiveness and reduce any unintended contributions to health inequities.



# **Overall Research Questions**

- Are there any adverse health and health equity effects of a new outdoor smoke-free policy for diverse women and men?
- 2. What are some of the key barriers to preventing outdoor tobacco use or SHS exposure found in the course of implementing of an outdoor smoke-free policy?
- 3. How do diverse women and men support and/or resist such a smoke-free policy?





# **Research Methods**

- Methods: This study employs a mixed-methods approach (observational data, survey research and various qualitative methods including ethnographic and group interviews) to generate a comprehensive understanding of a policy *in context*. Our aims are descriptive and analytical.
- Theoretical approach: Policy research informed by equityfocused Health Impact Assessment, population health ethics, Sabatier's Coalition Advocacy perspective, and UK Overseas Development Institute's research-policy framework
- **Analysis:** Descriptive and multivariate analysis are being applied to the quantitative data collection; thematic analyses are guiding the qualitative data.



# **Conference Presentations**

Posters in relation to the project have been presented at:

- National Conference on Tobacco or Health, Toronto, November 2011.
- Public Health Association of British Columbia Annual Conference, Richmond, BC, November 2011.
- World Conference on Tobacco or Health, Singapore, March 2012.
- Canadian Public Health Association Conference, Edmonton, June 2012.







Public Health Association of BC



Creatin Adde Instit Accessor 2013 Contents Public Health in Canada: Creating and Sustaining Healthy Environments Star-Conference Cent, Internets, Alternet June 11-14, 28

# **Project Components**

### **Primary Elements:**

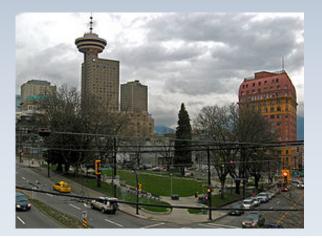
- Ethical Framework
- Parks and beaches observation project
- Population survey
- Park Ranger focus groups
- Description of policy context and policy development
- Media analysis

### Other data sources:

- Beach litter
- By-law citations







# **Ethical Framework**

The purpose of the ethical framework is to:

- Develop an understanding of the interplay between evidence and ethics in relation to outdoor smoke-free policies, and the potential impact of such policies on equity;
- Analyze the benefits and burdens of outdoor smoke-free policies, particularly in relation to certain subpopulations; and
- Develop recommendations to ensure future outdoor smokefree policies are ethical and equitable.



# Evidence, Ethics & Equity Paper

- Paper will be published by the BC Centre of Excellence for Women's Health.
  - Framework document using a modified version of the Kass (2001) public health ethics framework.
    - Gives background on health equity and the scope of public health.
    - Scientific and policy background on SHS exposure.
    - Summarizes current debates.
    - Provides an ethical analysis of outdoor smoke-free policies.



# **CIHR Public Health Ethics Casebook**

- Submission accepted to contribute to a casebook examining current ethical issues in population and public health.
- Casebook to be published in December 2012.
- Our piece examined:
  - The subpopulations who may be disproportionately affected by such policies;
  - Possible unintended consequences of outdoor smoke-free policies on these subpopulations; and
  - Possible solutions to the ethical challenges posed by these policies.



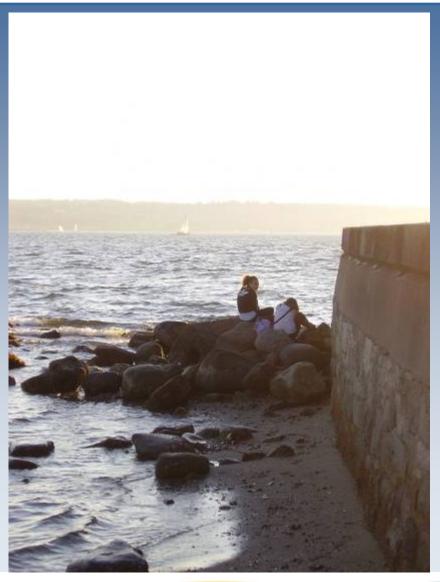
# **Balancing Benefits and Burdens paper**

- Paper developed for submission to *Critical Public Health*.
- Focuses primarily on modified Kass (2001) framework to guide analysis.
  - Examines the stated goals of outdoor smoke-free policies;
  - Discusses evidence of their effectiveness; and
  - Looks at the associated benefits and burdens of such policies.





### Smoking in Parks and Beaches following the Introduction of a Smoke-Free Law





# **Observational Study Purpose**

- Examine changes in Frequency of smoking in selected Parks (n=3 prelaw, n = 3 postlaw) and on selected Beaches (n=3)
- Examine changes in locations of smoking in selected Parks and on selected Beaches

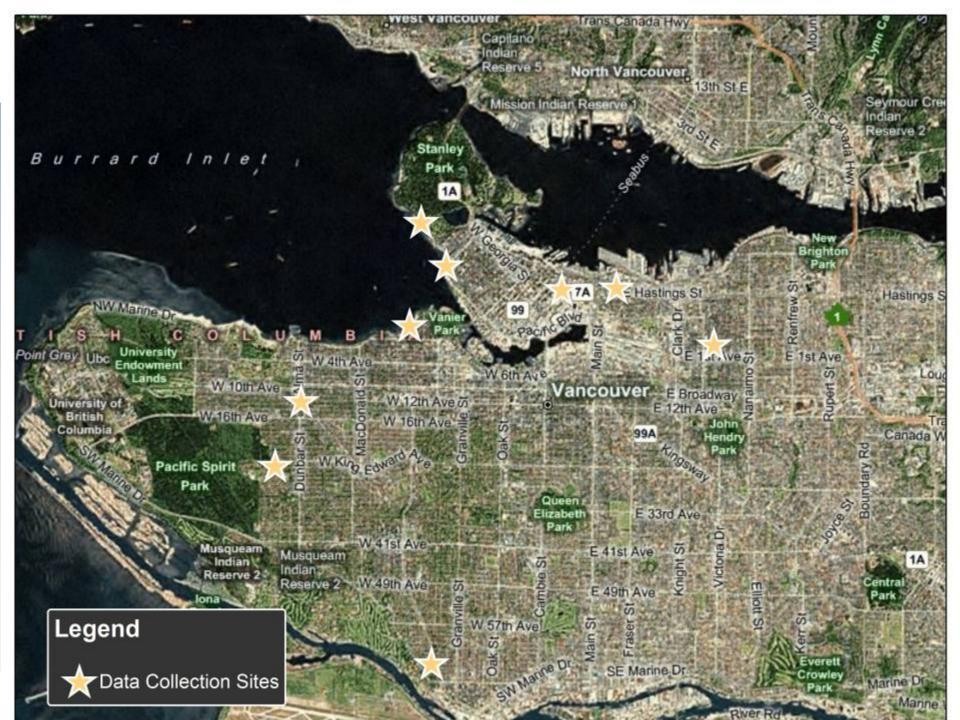
#### Protocol

- 30 minutes observation, 2 observers per venue Record:

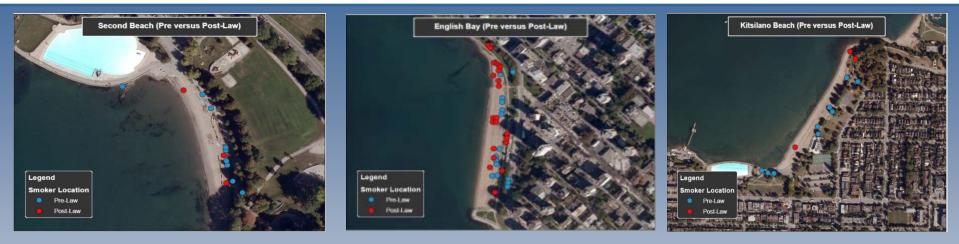
- time of entry & exit,
- temperature (warm, cool), wind condition (breezy, none breezy),
- number of persons in venue, number of smokers (by gender and approximate age)
- non-smoking signs
- interactions between smokers and nonsmokers







### Observed smoking in selected Venues (Prelaw vs. 12-months Postlaw)



Second Beach

**English Bay** 

Kitsilano Beach



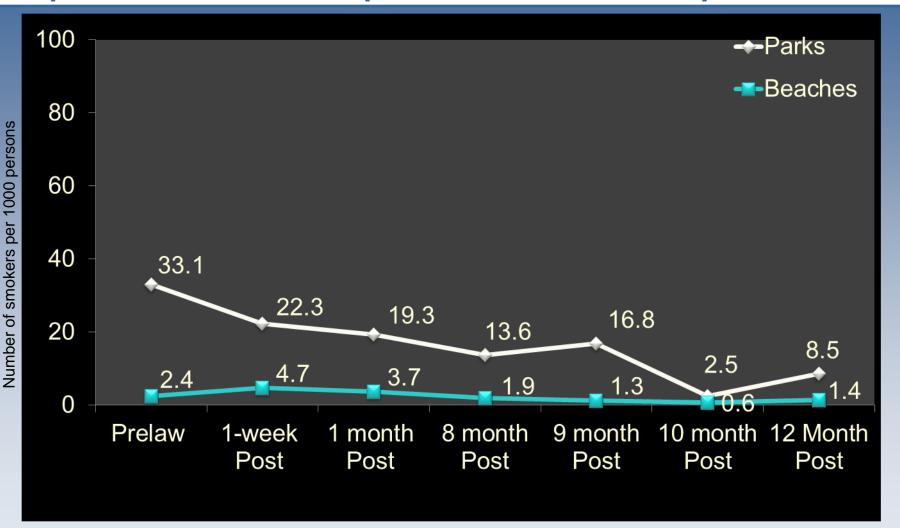
#### **Oppenheimer Park**

#### Victoria Park

#### Victory Square



# Changes in the rate of observed smokers in selected parks and beaches (pre-law to 12-month postlaw)



Beaches = (*F*=6.2 (df=6,11), p=.01\*) Parks = (*F*=2.5 (df=6,11), p=.1)



# **Observational Study Dissemination**

- Preliminary results have been presented at:
  - National Conference on Tobacco or Health, Toronto, November 2011
  - World Conference on Tobacco or Health, Singapore, March 2012.
- Paper detailing the analysis for 2010 and 2011 currently submitted to *Health & Place*.



### Vancouver Smoke-Free Law in Parks and on Beaches Population Survey





# Purpose

• To understand self-reported perceptions, attitudes, and behaviour changes in response to a smoke-free policy in parks and beaches in Vancouver.





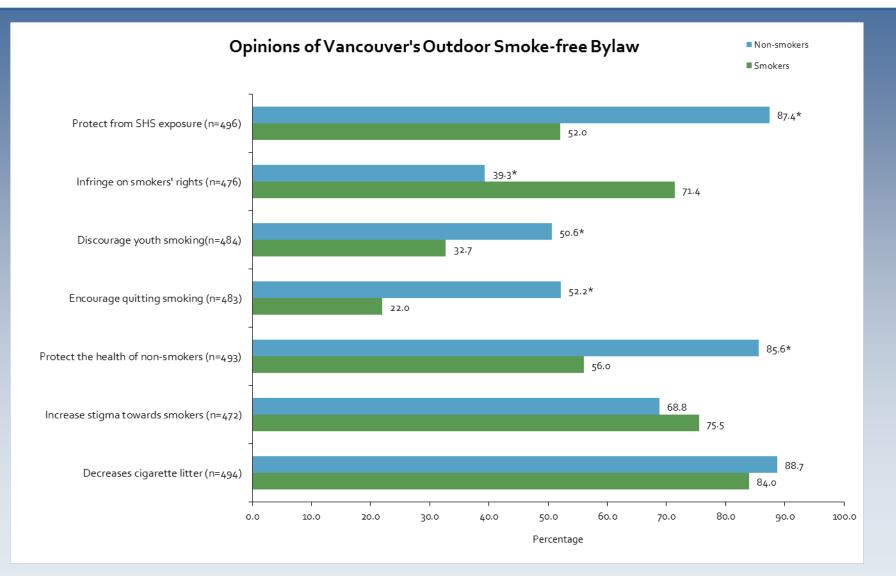
# **Methods**



- Sampling: Random-digital-dialing of residents in Vancouver, BC, through a survey research company (NRG Research Group)
- N = 500
- Survey carried out September 2011.
- Information obtained:
  - Demographics (age, sex, income level, ethno-cultural affiliation, education status)
  - Smoking history (i.e., current smoking status, cigarettes smoked per day and nicotine dependence for smokers)
  - SHS exposure (sources and frequency of exposure)
  - Opinions regarding the smoke-free policy
  - Behaviour changes in using parks and beaches since the smoke-free policy was introduced.



# **Preliminary Results**





# **Population Survey Dissemination**

- Poster detailing preliminary results presented at the Canadian Public Health Association conference, Edmonton, June 2012.
- Paper detailing the findings of the population survey has been submitted to *Health Policy*.



# Vancouver Park Ranger Focus Groups





# Purpose

• To determine the perceptions of Vancouver Park Rangers on the changes in smoking patterns in parks and beaches and describe the experiences of enforcing the smoke-free by-law





# Methods

- Two focus groups (n= 5 7 in each group) have been conducted with the Vancouver Park Rangers, one in 2011 and one in 2012 (following implementation of the ban).
- The focus groups were digitally recorded and transcribed verbatim.
- Data will be analyzed thematically.
- These data will be used in a paper discussing enforcement of the bylaw, including implications for the bylaw enforcement officers and descriptions of their experiences.



# **Assessment of Policy Context**

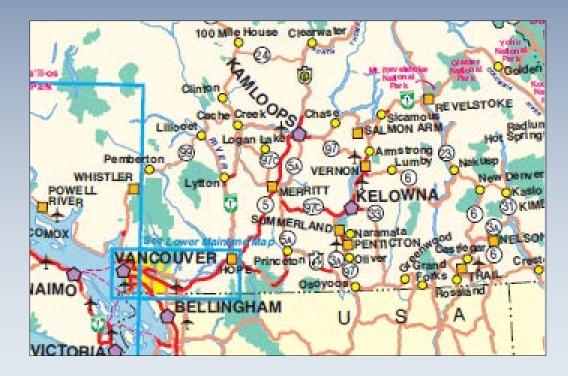


Source: 24 Hours http://vancouver.24hrs.ca/News/local/2011/08/28/18610831.html



# **Overview**

• The policy analysis examines the development, adoption and implementation of the smoking ban in Vancouver and draws some comparisons to experiences with similar bylaws in Kelowna, Surrey and Penticton, BC.





# **Theoretical Framework**

Informed by 3 approaches:

- Sabatier's Advocacy Coalition Framework (1988, 2007) stresses policy learning
- 2. UK Overseas Development Institute's research-policy framework (Crewe & Young 2002)

- stresses context, evidence, links

3. Equity-focused Health Impact Assessment (Mahoney et al. 2004) – stresses incorporating equity lens

All three address approaches view policy development as a process of knowledge exchange and hence look at what evidence is mobilized, by whom, and for what purposes.



# **Key informant interviews**

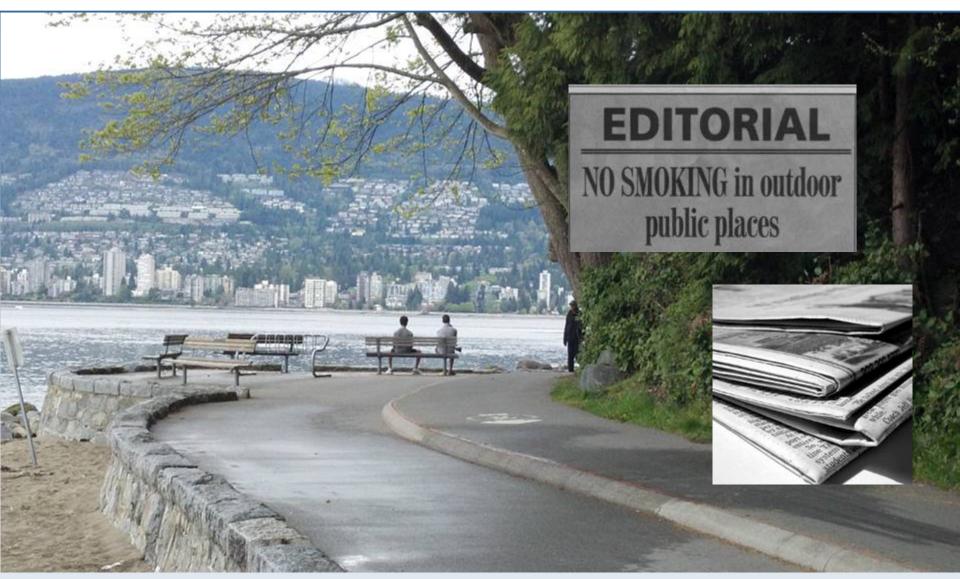
- 8 key informant interviews have been carried out in Vancouver.
- Research Assistants have been trained to carry out further interviews in comparator jurisdictions.
  - 4-6 in Kelowna and Surrey
  - 1-2 in Penticton
- Data will be used to inform journal article examining the factors influencing the development and implementation of outdoor smoke-free policies.



# An Evolving Context



# **Media Analysis**





# **Background and Purpose**



- Media plays a significant role in policy making as a mechanism of information dissemination and in shaping public opinion
- Purpose of this component is to assess the potential effects the media may have had on public opinion regarding the smoke-free policy



# **Methods**

### **Newspapers**

- The Vancouver Sun
- The Province
- The Globe and Mail (BC Edition)
- The Georgia Straight
- The Surrey Leader
- Kelowna Capital News
- Penticton Western News

#### **Date Range**

• January 2010 – December 2012

#### Approach

• Agenda Setting and Framing Theories





# **Preliminary Results**

- Coverage of Vancouver's smoke-free policy was highest when the ban was announced, and to a lesser extent, prior to its implementation.
- This implies that the potential for agenda setting effects of news media was greatest when the ban was announced to the public.
- General coverage of the smoke-free policy focused on health reasons for the ban, increasing the potential for the public to place importance on health as the salient issue regarding smoking regulation.
- News articles, which made up over half the sample, identified health and environmental factors as the primary reasons for the need for smoke-free policy.
- Letters to the editor, however, were largely focused on issues related to individual rights and concerns about the regulation of public spaces.



# **Media Analysis Dissemmination**

- Poster of preliminary results presented at Canadian Public Health Association conference, Edmonton, June 2012.
- Paper being developed for journal submission.





# **Other Data Sources – Beach Litter**

- Purpose to determine the changes in smoking-related litter on the beaches.
- Data obtained from the Great Canadian Shoreline Cleanup, both pre- and post- ban.
- The litter data will be analyzed to determine changes in smoking-related litter on Vancouver beaches.
- Frequencies of total cigarette butts per beach count data will be reported by year.











# **Other Data Sources - By-Law Citations**

- Purpose to examine changes in smoking citations during summer and fall months (May, June, July, August, Sept, October)
- Data on citations has been obtained from the Vancouver Board of Parks and Recreation for September 2010-March 2012
- Frequencies of citations will be assessed by month and by venue of citation (low socioeconomic venue vs. high socioeconomic venue).
- Chi-square analysis will be employed to determine citation frequency by venue of citation.

Vancouver outdoor smoke-free bylaw enforcement statistics (September 2010-March 2012)

	2010	2011	2012
Voluntary compliance	723	6274	23
Formal verbal warning		20	
Written warning		61	
MTI	1	42	





### Contacts

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### **Questions? Comments?**



