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# Modeling the Mental Health Act:

Exploring the use of the Mental Health Act across Police Detachments in British Columbia

Kathryn Wuschke Niki Huitson Joseph Clare Patricia Brantingham Fiona Young



# Outline

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### Background

- Review of Canada's Mental Health Act
- Review of Research in Area

### Exploratory Analysis

Data and Methodology

• Results

### Discussion and Future Directions

## Mental Health Act

**CURS** 

- Canadian health care is Provincially mandated
- 1964: BC developed Mental Heath Act
  - Specifies guidelines for admittance of voluntary and involuntary patients
  - Identifies provincial mental health facilities
  - Describes safeguards aiming to prevent unnecessary detention

(*BC Ministry of Health*, 2005)

# System Overlap

- The Act recognizes the overlap between the health care systems and criminal justice systems
  - Section 28(1) :
    - A police officer or constable may apprehend and immediately take a person to a physician for examination if satisfied from personal observations, or information received, that the person
      - is acting in a manner likely to endanger that person's own safety or the safety of others, and
      - is apparently a person with a mental disorder *(BC Ministry of Health, 2005, 141)*

**CURS** 

### Research in the Area

- Crime and the Environment
- Mental Health and the Environment
  - Complex relationship

**ICURS** 

- Social and structural neighbourhood decline associated with higher instances of mental health disorders (Wandersman and Nation, 1998)
- Sub-standard housing linked to mental and physical health problems (*Srinivasan et al., 2003; Evans, 2003*)

# Crime, Mental Health and the Environment

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- Schizophrenia and Arrests (Australian Institute of Criminology, 2008)
  - Majority of individuals were arrested *before* being diagnosed with mental disorder
- Reintegration of NCR-MD: (Melnychuk et al., 2009)
  - Patients return to former home neighbourhoods
  - Homes spatially clustered in two most socially disorganized neighbourhoods in area
  - Patients living in these areas had highest rates of return to custodial care

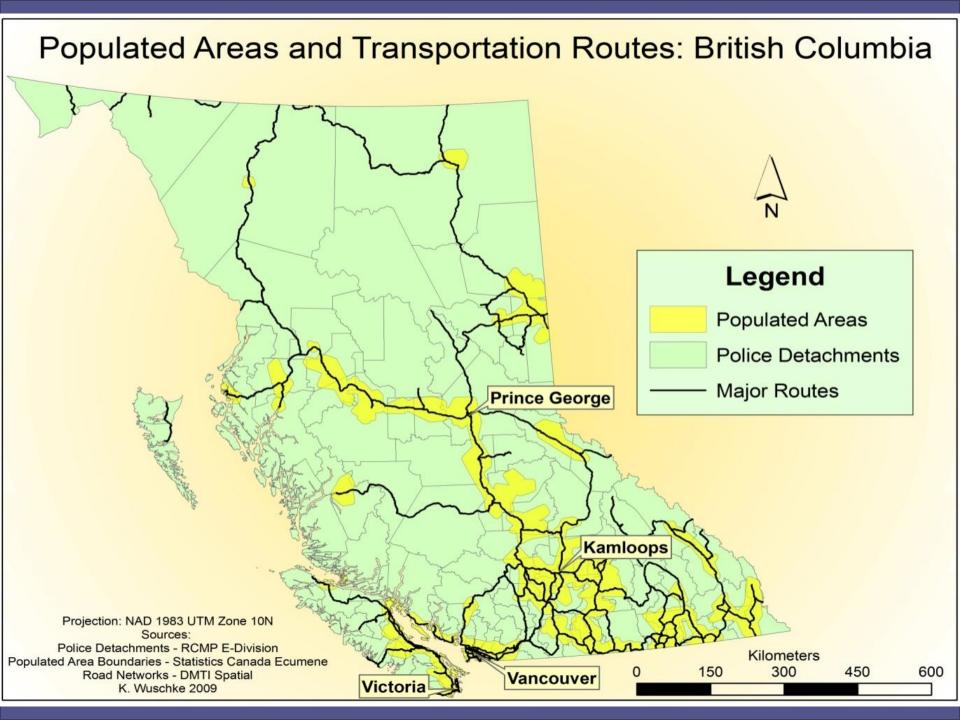
# Exploratory Research Approach

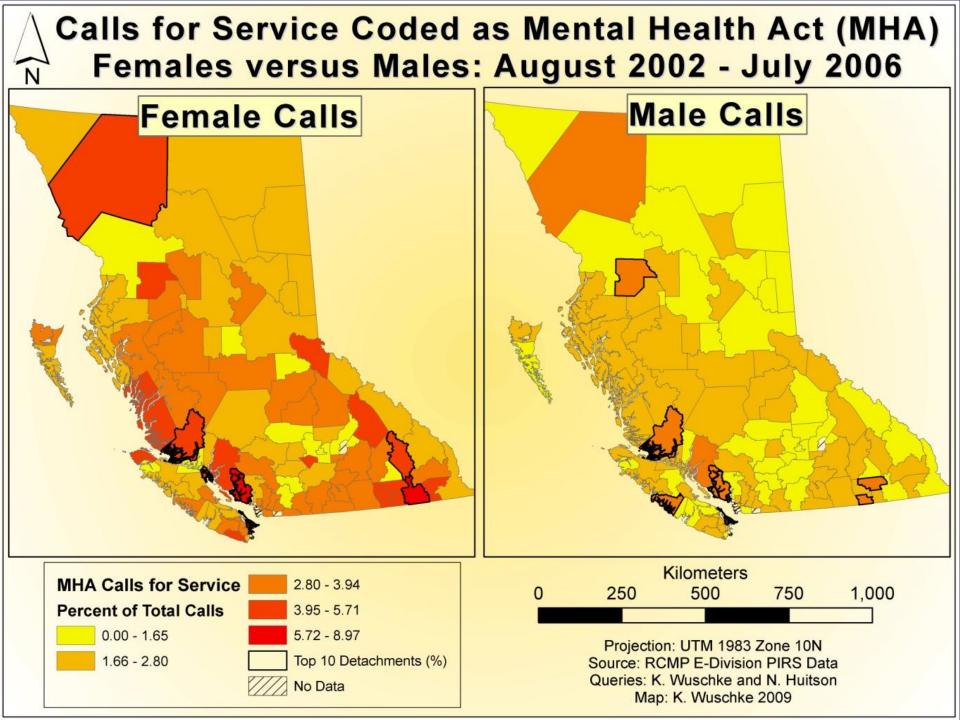
### Data Sources: RCMP Police Records

- All RCMP Contacts between 2002 and 2006 within British Columbia, Canada
- Records relating to Mental Health Act queried for exploration (n = 118, 123)

Phase I: Mapping event location by detachment Phase II: Exploring aggregate trends of Act-related records

• Phase III: Spatial analysis of access to health care





### Cartograms

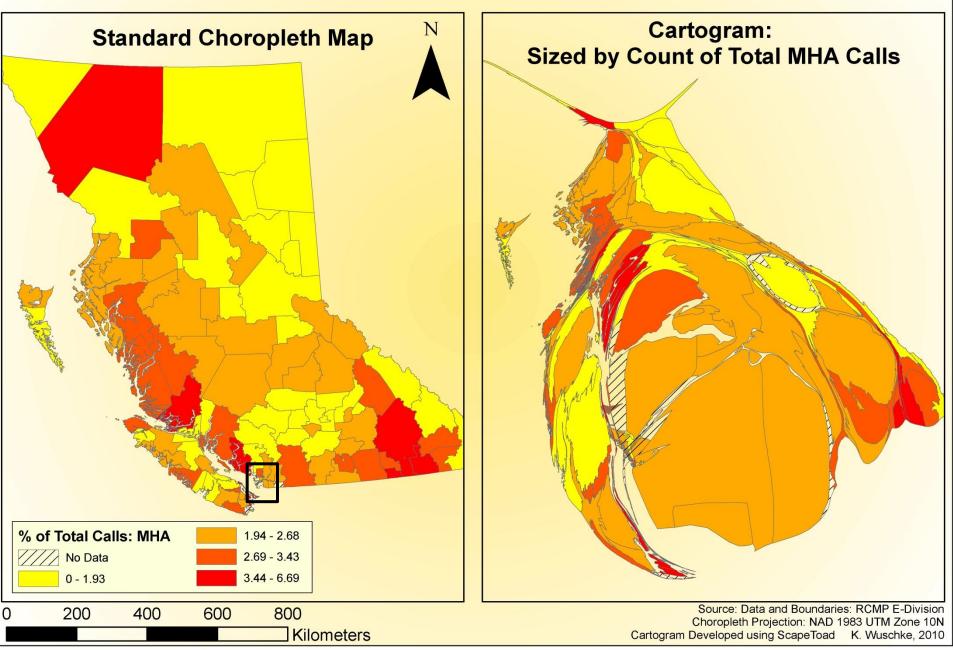
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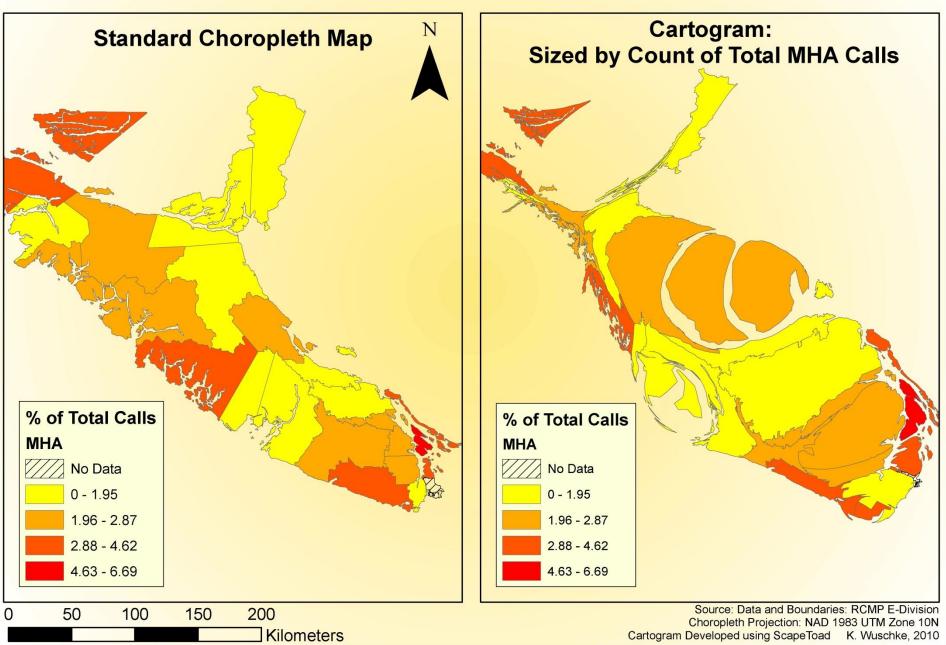
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- "Cartograms are maps in which the projection of geographic space onto the page is deliberately distorted to give regions...sizes that are proportional to some quantity of interest." (Dorling et al., 2006, 758).
- Can equalize differences in population density
  Quickly and powerfully present spatial patterns
  Clearly emphasize hotspots and inequalities

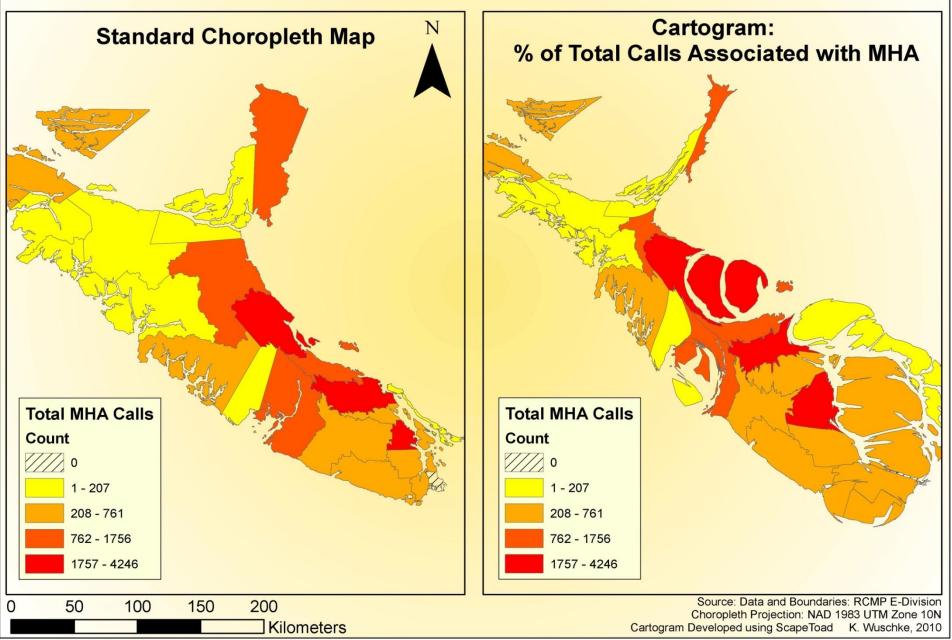
#### British Columbia Police Detachments (2002 to 2006): Percent of Total Calls for Service associated with the Mental Health Act



#### Vancouver Island (2002 to 2006): Percent of Total Calls for Service associated with the Mental Health Act

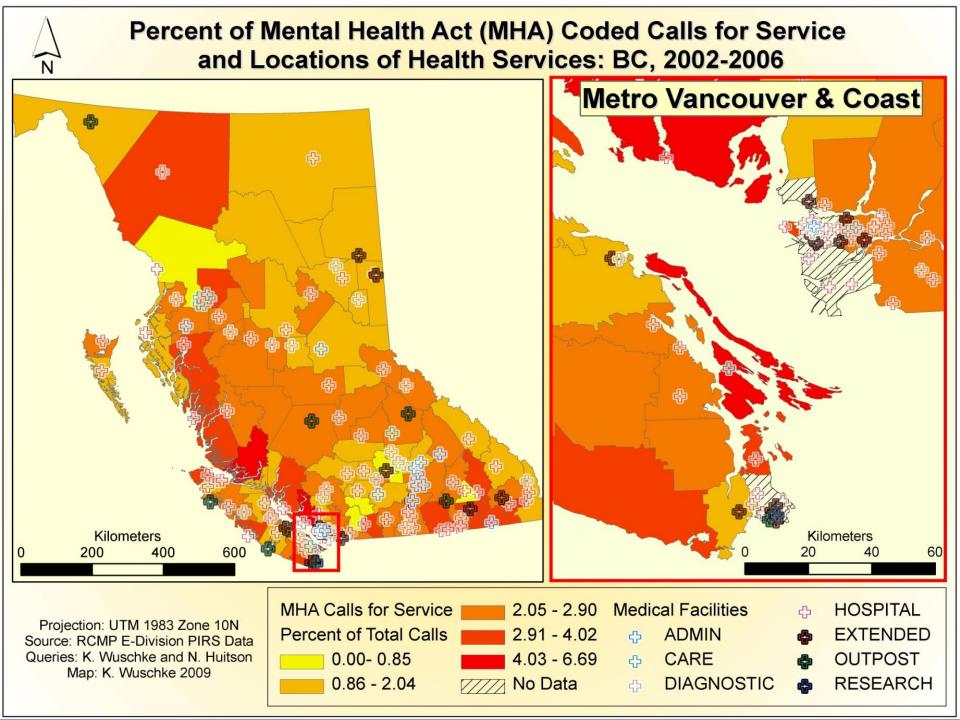


#### Vancouver Island (2002 to 2006): Count of Total Calls for Service associated with the Mental Health Act

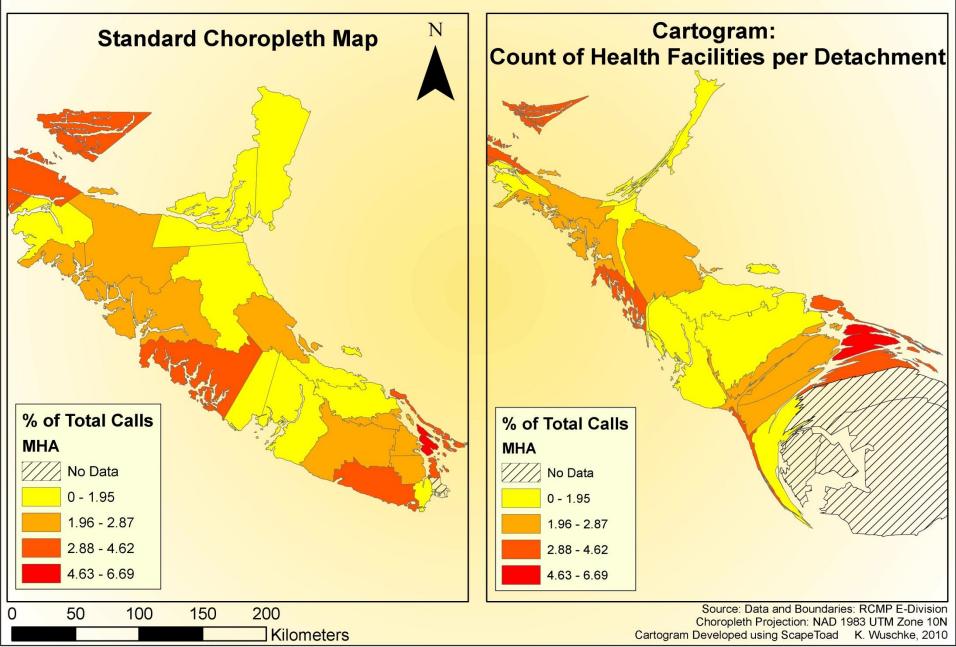


### Trends in Calls for Service

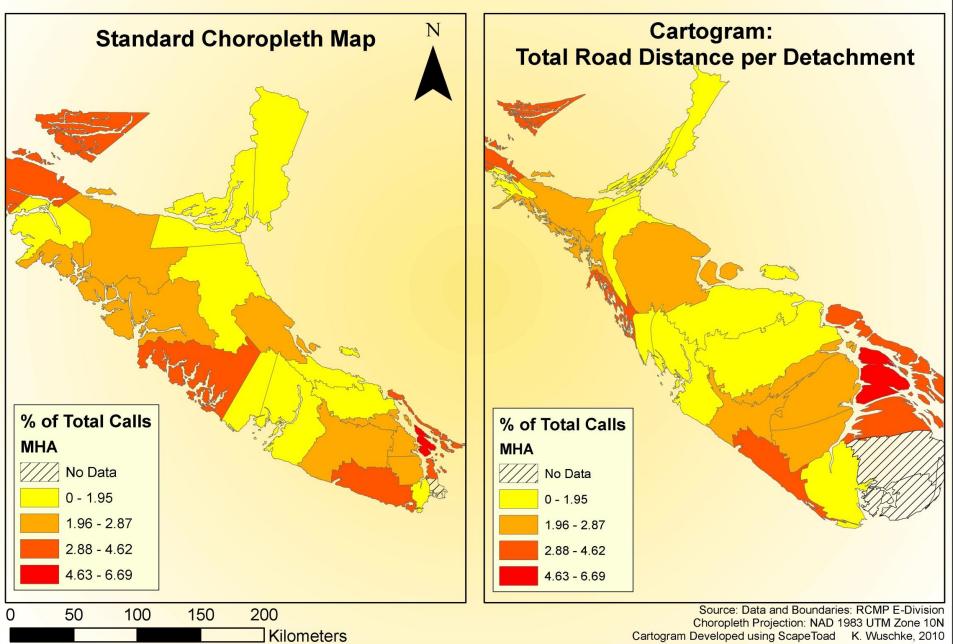
Measured Feature	Calls for Service Relating to the Mental Health Act (n = 118,123)		Total Calls for Service (N = 5,370,841)	
	Count	Percent	Count	Percent
Female-Related Calls	60567	51.27	2044005	38.06
Male-Related Calls	57547	48.72	3326836	61.94
Status - Charged	43	0.04	261877	4.88
Status - Complainant	42098	35.68	2138395	39.81
Status - Suspect	109	0.09	114894	2.14
Status - Victim	365	0.31	761799	14.18
Status - Violent	192	0.16	6372	0.12
Status - Diverted	2	0.00	6919	0.13
Status - Intoxicated	5374	4.55	210973	3.93
Status - Chargeable	392	0.33	311063	5.79
Status - Subject of Complaint	39975	33.84	717660	13.36
Status - Charges Recommended	1	0.00	18862	0.35
No Fixed Address Recorded	797	0.67	22600	0.42



#### Vancouver Island (2002 to 2006): Percent of Total Calls for Service associated with the Mental Health Act



#### Vancouver Island (2002 to 2006): Percent of Total Calls for Service associated with the Mental Health Act



# **Discussion and Future Directions**

- Females associated with more Mental Health Actrelated calls for service
  - Differences due to prevalence in mental disorders?
  - Differences due to policing practices?
  - Fewer charged, chargeable & victims
  - Accessibility to Health Services

**Conclusion** 

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- Unclear and complex relationships
- Future research will incorporate Complex Systems

### Thank You!

Conclusion

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• Thanks to the Modeling Complex Social Systems group for supporting future directions

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