

ÉVALUER « UNE SEULE SANTÉ » : LE POURQUOI DU COMMENT



Jeudi 22 août 2019
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MÉDECINE VÉTÉRINAIRE

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GROUPE DE RECHERCHE EN
ÉPIDÉMIOLOGIE DES ZONOSES
ET SANTÉ PUBLIQUE



Université 
de Montréal

Des connaissances à l'action : **Apport des sciences sociales à l'approche OH et son évaluation**

From knowledge to action :
**Contributions from the social sciences to
the One Health approach and its evaluation**

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What does 'One Health' mean, in SOCIAL practice?



Social Science & Medicine
Volume 68, Issue 6, March 2009, Pages 991-995

Short report

Animal–human connections, “one health,” and the syndemic approach to prevention ☆

Melanie Rock ^{a,*, 1}, Bonnie J. Suntain ^{a, 2}, Jennifer M. Hatfield ^{a, 3}, Benedikt Hallgrímsson ^{a, 4}



Efforts to reduce the occurrence of afflictions that ‘interact synergistically within the context of specific **physical and social environments**, especially as a result of **inequality** within and between human populations, to produce excess disease burdens in...populations’ [i.e., human and/or non-human populations] (Rock et al., 2009, p.993)

What has 'One Health' meant, for social scientists?



Social Science & Medicine
Volume 129, March 2015, Pages 1-4



Introduction

One world, one health? Social science
engagements with the one health agenda

Susan Craddock A. B., Steve Hinchliffe

One Health is a 'generalised and flexible term that captures the **will to address the complexities and interrelations** that exist between human, animal and ecological health'

'to date the [One Health] approach...has tended to offer **few opportunities for serious social scientific contributions** or engagement'

What has 'One Health' meant, for social scientists?



Social Science & Medicine
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Introduction

One world, one health? Social science
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'This **special issue** [provides] an **opportunity for social scientists** to reflect on, respond to and develop One Health in ways that are informed by a range of social science approaches.'

4 tasks for social scientists:

- 1) 'Foregrounding uneven geographies'
- 2) 'Problem framing'
- 3) 'Analysing relations'
- 4) 'Re-distributing expertise'

What does 'One Health' mean, in ETHICAL practice?



Social Science & Medicine
Volume 129, March 2015, Pages 61–67



Public health ethics and more-than-human solidarity

Melanie J. Rock^{a,*}, Chris Degeling^b

more-than-human solidarity is...

**'human activity directed towards...
assisting others, whenever cared-for
others include non-human animals,
plants, or places'**
(Rock & Degeling 2015)

What has 'One Health' meant, for social scientists?



'[T]his **special issue** of *Critical Public Health*...collectively explore[s] how certain theoretical perspectives in the **social sciences**, often termed *posthumanism*, might productively be applied to public health research'

'reinvigorate a key argument that some readers may fear is disappearing from view – that **talking about health is talking about politics**'

3 Key Points

- 1) The value of reframing
- 2) Health as relational
- 3) Questioning humanist assumptions in public health

What has 'One Health' meant, for social scientists?



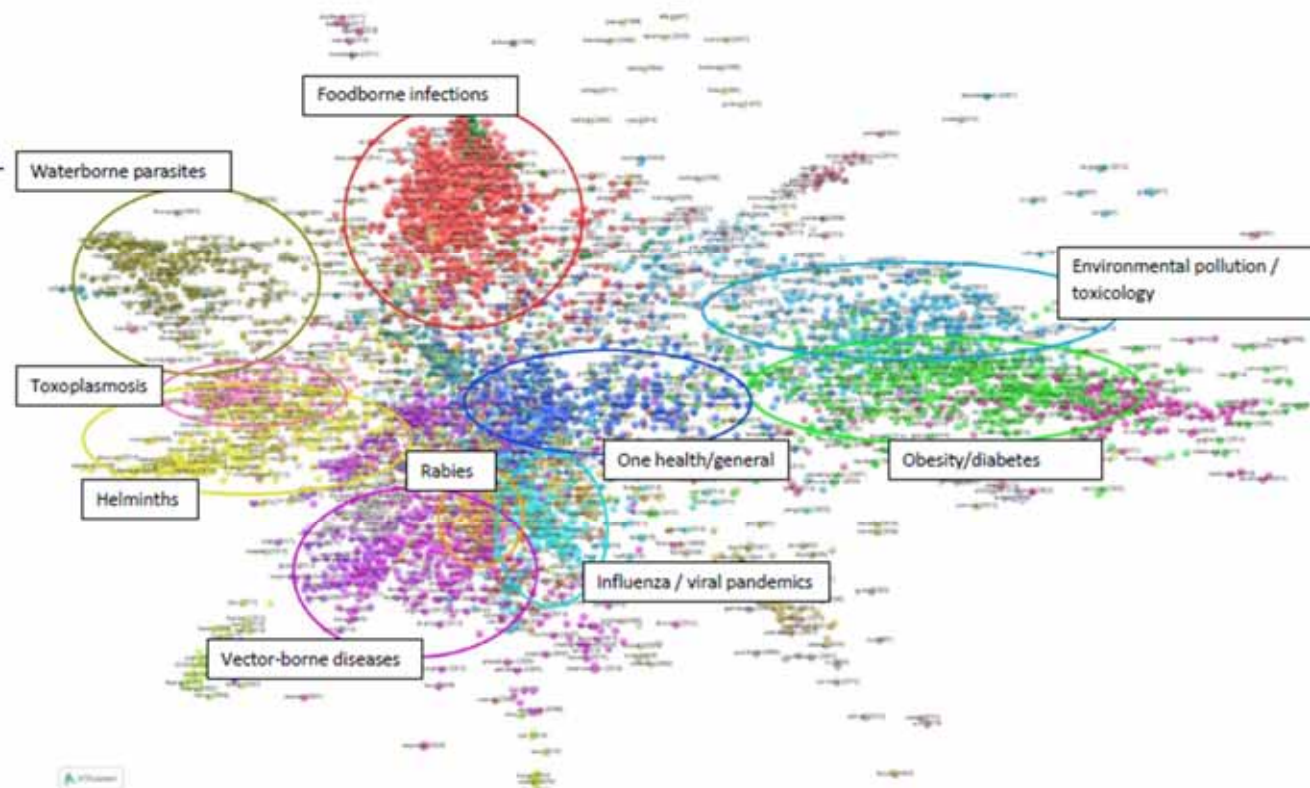
Critical Public Health

ISSN: 0958-1596 (Print) 1469-3682 (Online) journal homepage: <https://www.tandfonline.com/loi/ccph20>

Posthumanist critique and human health: how nonhumans (could) figure in public health research

Carrie Friese & Nathalie Nuyts

- None of the top-10 cited publications were by social scientists
- All of the top-10 journals for One Health articles were medical or veterinary (0 for social sciences)
- Economics best represented amongst disciplines in the social sciences (i.e., cost-effectiveness EVALUATIONS)



What has EVALUATION vis-à-vis 'One Health' meant, for THIS social scientist as a qualitative researcher?



Critical Public Health

ISSN: 0958-1596 (Print) 1468-2682 (Online) Journal homepage: <https://www.tandfonline.com/loi/itcpb20>

Who or what is 'the public' in critical public health?
Reflections on posthumanism and anthropological
engagements with One Health

Melanie J. Rock

- 1) What happens when people care for cats and dogs with **diabetes** mellitus?
- 2) What issues need attention when **low-income people** care for cats and dogs?
- 3) What surfaces when viewing **dog-walking** as 'caring for self & others'?
- 4) Who cares for whom when local policies permit off-leash dogs in parks?
- 5) Who cares for whom in investigations and enforcement vis-a-vis animal laws?
- 6) How have public educators responded to **aggression** in dogs?
- 7) How have policy-makers responded to **aggression** manifested by dogs?

Off-Leash Dogs in Public Parks – *the Case of Calgary*



SSM - Population Health
Volume 2, December 2016, Pages 237-243



Article

Changes in visitor profiles and activity patterns following dog supportive modifications to parks: A natural experiment on the health impact of an urban policy

Gavin R. McCormack ^{a,*,} Taryn M. Graham ^{a,} Kenda Swanson ^{a,} Alessandro Massolo ^{b,}
Melanie J. Rock ^{a, b,}

KEY FINDINGS for HUMAN POPULATION

from 4 parks in different neighbourhoods

- 1) Designating off-leash areas in parks **lowered** the intensity of children's activity.
- 2) Park visitors *with* dogs were **less active** overall than those *without* dogs

Off-Leash Dogs in Public Parks – *the Case of Calgary*



KEY FINDINGS for DOG-WALKERS and DOGS THEMSELVES *from 4 parks in different neighbourhoods*

- 1) Creating off-leash park areas did **not** consistently increase **dog-walking**.
- 2) Creating off-leash park areas did **not** consistently increase **dog-fouling**.
- 3) **Physical and social environments** influenced frequency of dog-walking *and* of dog-fouling – more so than did leashing policies

Off-Leash Dogs in Public Parks – *the Case of Calgary*



Critical Public Health

ISSN: 0958-1596 (Print) 1469-3682 (Online) journal homepage: <https://www.tandfonline.com/loi/ccph20>

Public engagement and community participation in governing urban parks: a case study in changing and implementing a policy addressing off-leash dogs

Melanie J. Rock, Chris Degeling, Taryn M. Graham, Ann M. Toohey, Dawn Rault & Gavin R. McCormack

KEY FINDINGS for 'ONE HEALTH' PROMOTION

- ✓ City of Calgary engaged residents – with and without dogs of their own – in **formulating** a new off-leash policy
- ✓ City of Calgary engaged residents in **implementing** the new policy within several neighbourhoods

Off-Leash Dogs in Public Parks – *the Case of Calgary*



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KEY FINDINGS for ‘ONE HEALTH’ PROMOTION

- In the first summer under the new policy, the City ultimately designated an off-leash area in 1 park (*of 3 existing parks where the City had proposed off-leash designations*)
- A disadvantaged neighbourhood surrounds this new off-leash park.

Off-Leash Dogs in Public Parks – *the Case of Calgary*



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KEY FINDINGS for 'ONE HEALTH' PROMOTION

- *Public engagement*, as practiced by policymakers, can diverge from *community participation*, as endorsed in health promotion
- We should revise the meaning of 'community' and of 'public' – to account for the influence of non-human beings

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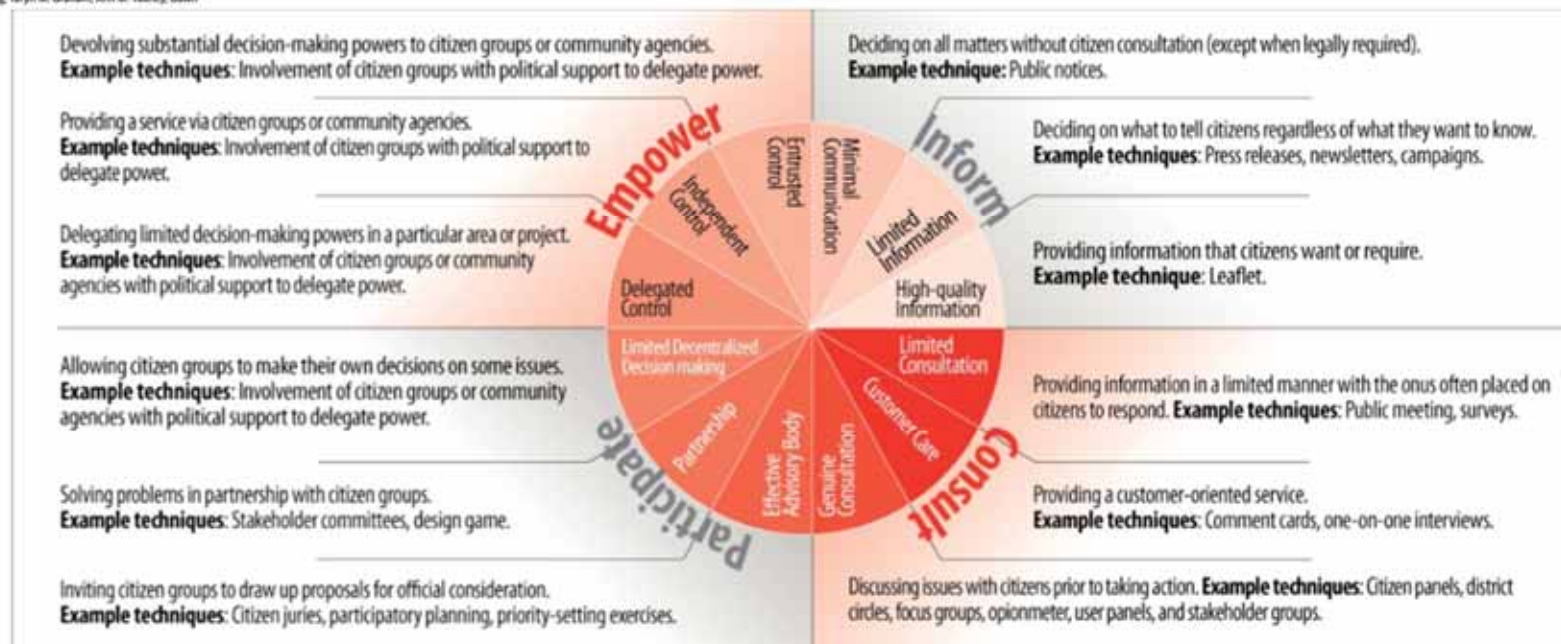
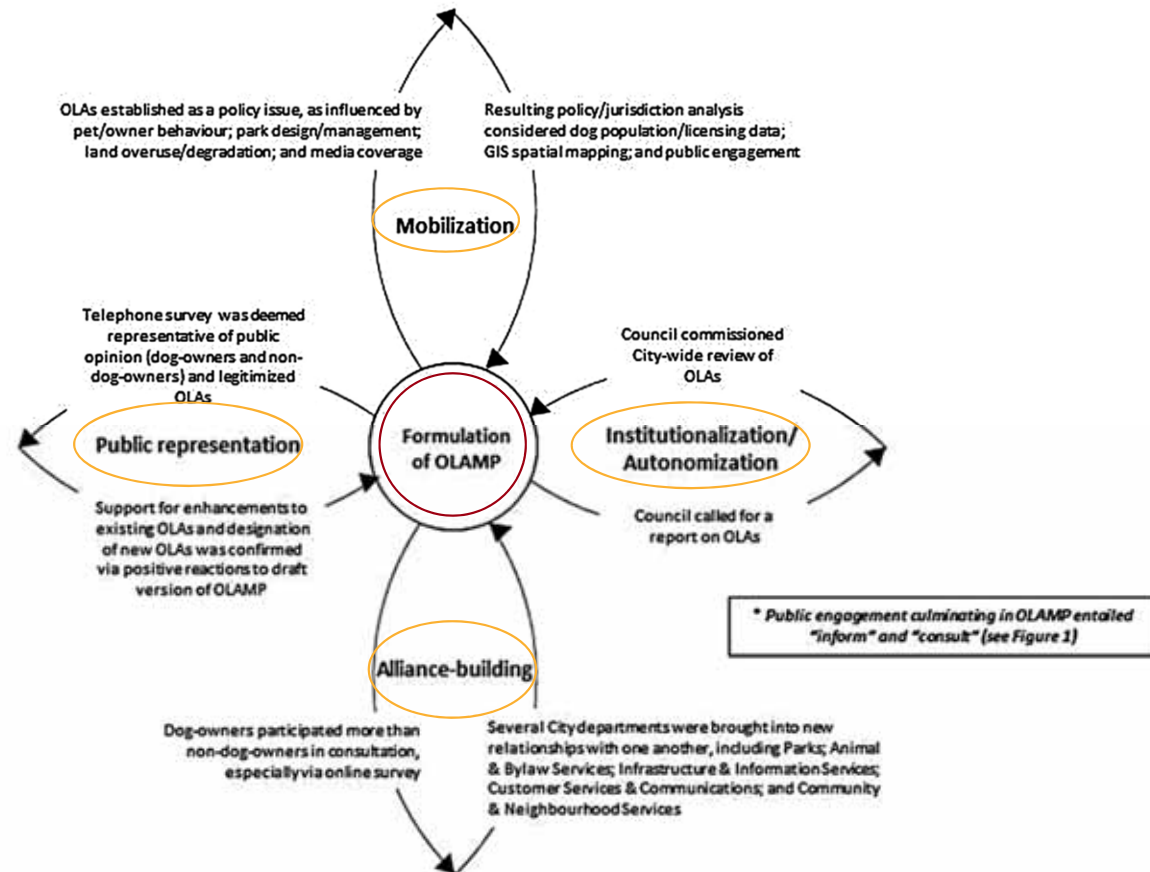


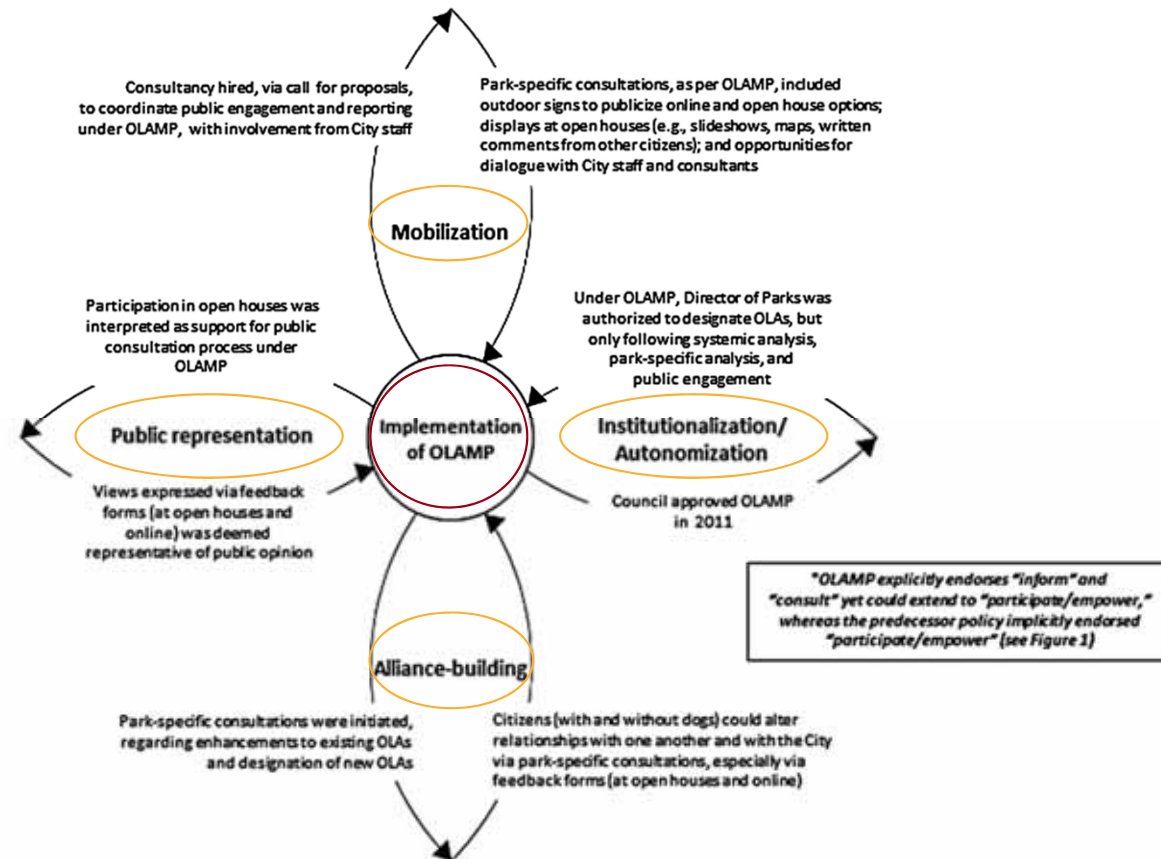
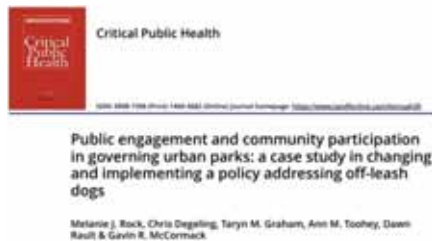
Image and captions adapted from Davidson (1998) Davidson, S. (1998) & Heritage and Dooris (2009).

Off-Leash Dogs in Public Parks – *the Case of Calgary*



Note: OLAs = "Off Leash Areas"; OLAMP = "Off-Leash Area Management Plan"; Image adapted from Latour (1999).

Off-Leash Dogs in Public Parks – *the Case of Calgary*



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Off-Leash Dogs in Public Parks – *the Case of Calgary*



Critical Public Health

ISSN: 1938-1900 (print) 1938-1902 (online) Journal homepage: <https://www.tandfonline.com/doi/full/10.1080/19381900.2016.1191111>

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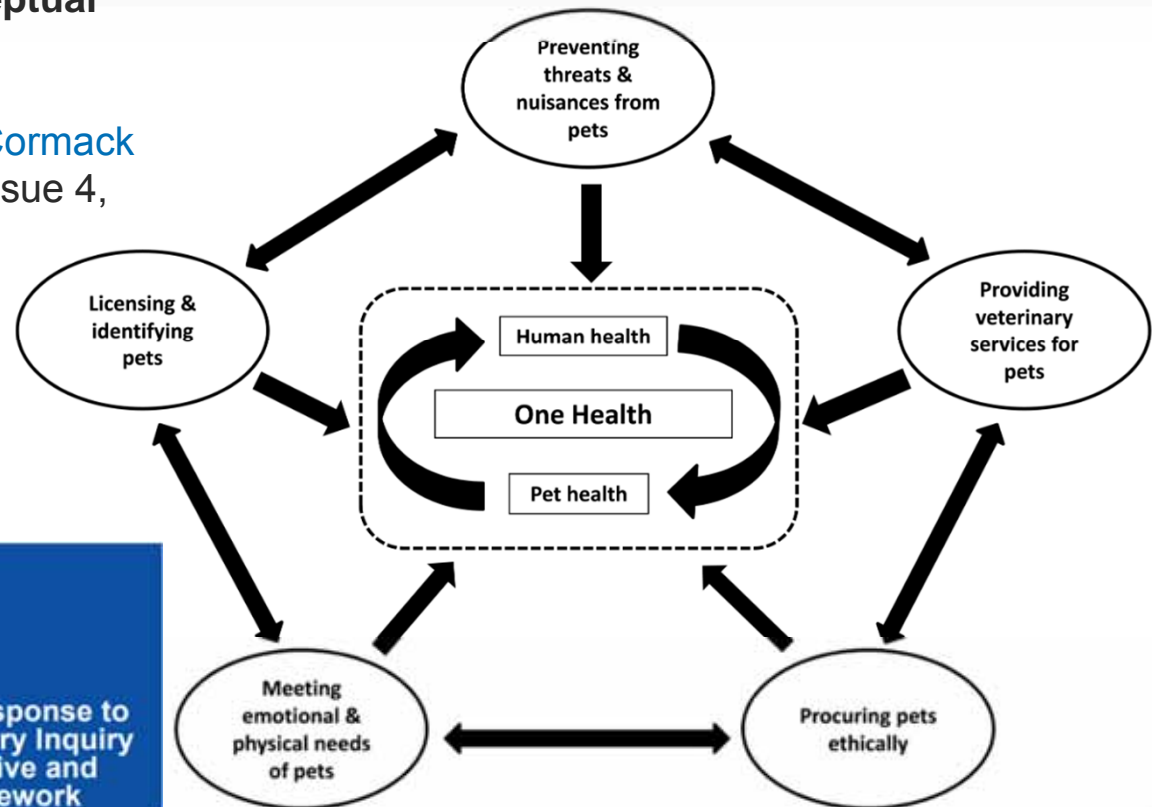
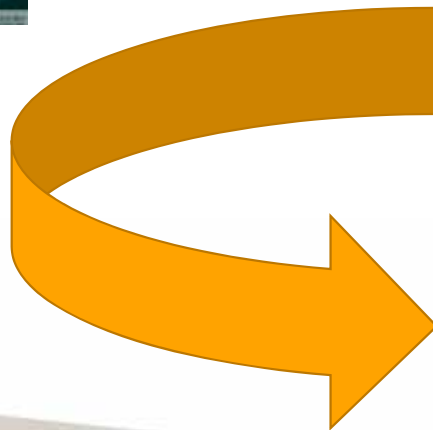


Outdoor signage publicizing public engagement (Photograph credits: Lindsay Burton and Kenda Swanson)

From 'the Calgary model' to an Evaluative Framework

Policies on pets for healthy cities: a conceptual framework

Melanie J. Rock, Cindy L. Adams, Chris Degeling, Alessandro Massolo, Gavin R. McCormack
Health Promotion International, Volume 30, Issue 4,
 December 2015, Pages 976–986



From 'the Calgary model' to an Evaluative Framework



Chapter 3

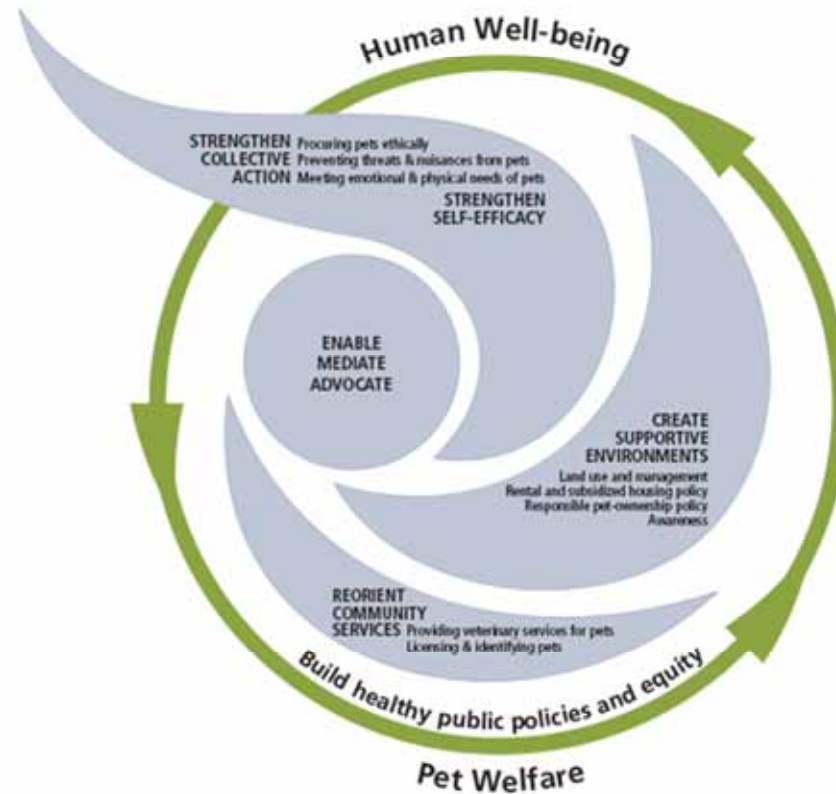
Toward “One Health” Promotion

Melanie Rock & Chris Degeling

Book Editor(s): Merrill Singer

First published: 15 April 2016

<https://doi.org/10.1002/9781118786949.ch3>



From municipal data to One Health surveillance – *in Calgary as ‘model city’ for dog policy*



Insights about the Epidemiology of Dog Bites in a Canadian City Using a Dog Aggression Scale and Administrative Data

Niamh Caffrey ^{1,*} , Melanie Rock ^{1,2,3} , Olivia Schmitz ¹, Doug Anderson ⁴,
Melissa Parkinson ⁴ and Sylvia L. Checkley ^{1,3,5} 

2019, 9(6), 324; <https://doi.org/10.3390/ani9060324>



Serious dog bites primarily occur at home, says University of Calgary study

STEPHANIE BABYCH Updated: June 19, 2019



Coordination lacking vis-à-vis aggression in dogs – *even in Calgary as ‘model city’ for dog policy*



Social Science & Medicine
Volume 187, August 2017, Pages 126-133



Dog-bites, rabies and One Health:
Towards improved coordination in
research, policy and practice

Melanie J. Rock ^{a, b, c, d, e}, Dawn Rault ^{a, d}, Chris Degeling ^a



<https://vet.ucalgary.ca/home/news-updates/anatomy-dog-bite-when-where-and-why-dogs-bite>

- Rabies prevention connects, in lived experience, with dog-bite prevention
- Public policies and healthcare professionals tend to disregard dog-bite injuries in rabies control

Media stories about dog-bite injuries: Who – or what – is to blame? Role for preventive policies?



Health & Place
Volume 57, May 2019, Pages 70–73



Short Communication

‘When the dog bites’: What can we learn about health geography from newspaper coverage in a ‘model city’ for dog-bite prevention?

M. Mouton ^a, A. Bouillon ^b, O. Solomon ^{c,d}, M.J. Rock ^{a,*}



‘Animal Control’ AND/OR ‘Social Control’ in dog policies?

Preliminary thoughts concerning Montreal, QC

2016-06-08

Death of
Christiane
Vadnais

2017-12-20

Mayor Plante
reverses plans for a
pitbull ban in
Montreal

2018-06-13

Gov't of Quebec adopts a new policy on
dogs and public health

2016-06-18

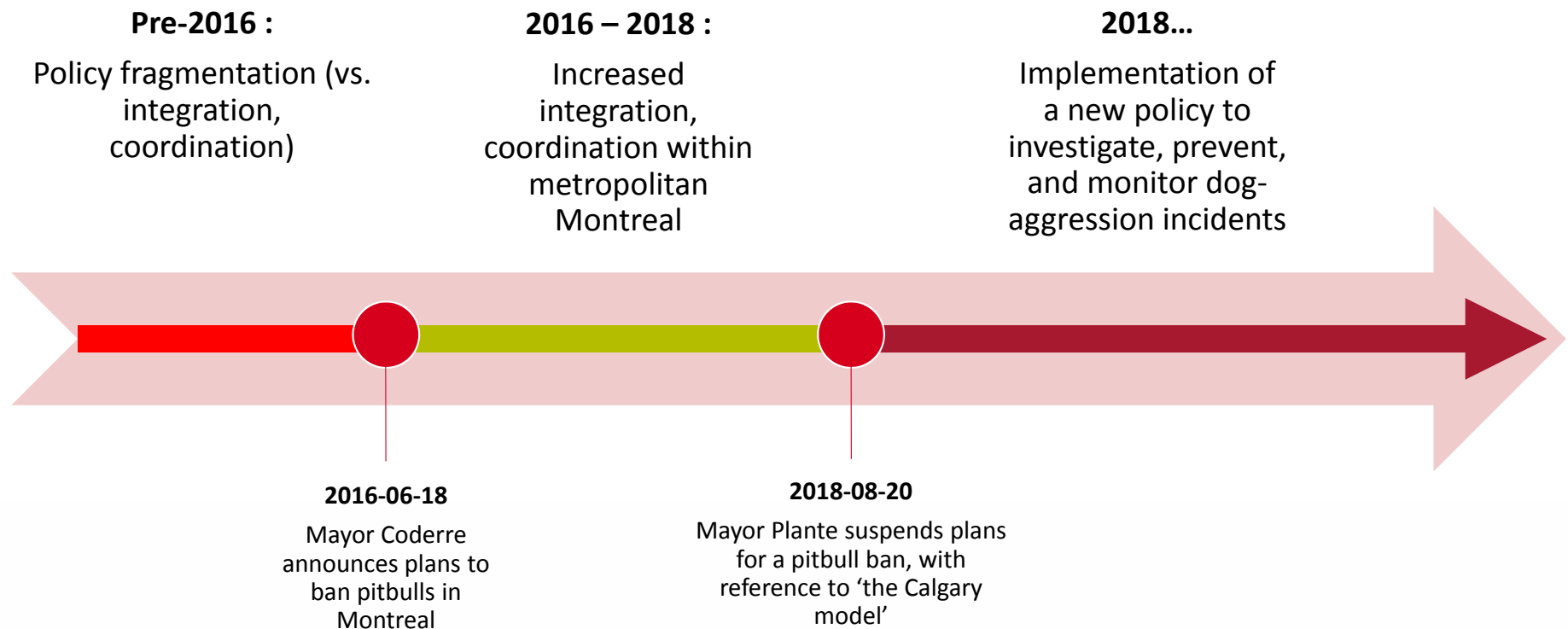
Mayor Coderre
promises to ban
pitbulls throughout
metropolitan
Montreal

2018-08-20

Montreal's city council
introduces a new policy on
dogs

‘Animal Control’ AND/OR ‘Social Control’ in dog policies?

Preliminary thoughts concerning Montreal, QC



Thanks for the invitation & for your attention...

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de Montréal

Thanks to my parents...



Father (George W. Rock – in the audience!)

Mother (P. June Rock née Milsap)

22 August 1945 – 8 April 2019

<https://netcommunity.ucalgary.ca/RockMemorial>

Thanks to team members.....

PhD Students & Alum	Post-Doctoral Fellows	Master's Students & Alum
Taryn Graham , MA, PhD (U-Calgary)	Valli-L. Fraser-Celin , MLS, PhD (McGill + U-Guelph)	Abigail Barth , BA, MSW (U-Calgary)
Dawn Rault , MA, PhD (U-Calgary)	Morgan Mouton , MA, PhD (Science Po + U-Paris-Est)	Amberlee Boulton , BA MSW in progress (U-Calgary)
Ann Toohey , MSc, PhD (U-Calgary)	Niamh Caffrey , MSc, PhD (U-Edinburgh, U-PEI)	Jovan Lottis , BA, MSW (U-Calgary)
Juliette di Francesco , MPH PhD in progress (w. S-Kutz, U-Calgary)		Kimberly van Patten , BA,MSW (U-Calgary)
Cheryl Travers , MPH PhD in progress (w. C-Degeling, U-Wollongong)		Tessa Baker , DVM, MSc (w. S-Kutz, U-Calgary)

Thanks to my collaborators & keystone sponsors...



UNIVERSITY OF CALGARY
O'Brien Institute for Public Health

SSHRC Insight Development Grant, #430-2016-00078

Multispecies families, communities and publics in a 'model city' for companion animal welfare

Principal Investigator: MJ Rock | Co-Investigator: O Solomon

CIHR Open Operating Grant, #MOP-130569

Social justice and pet ownership

Principal Investigator: MJ Rock | Co-Investigators: CL Adams & C Degeling

CIHR Open Operating Grant, #MOP-123380

A province-wide qualitative study of animal bylaws | Principal Investigator: MJ Rock

CIHR-IPPH Population Health Intervention Research Operating Grant, #GIR-112745

A 'natural experiment' study of off-leash areas | Principal Investigators: MJ Rock and GR McCormack

SSHRC Standard Research Grant, #410-2004-2152

Patients, models and therapeutic agents: Animal-human relationships in Western health care.

Principal Investigator: MJ Rock | Co-Investigators: E Mykhalovskiy and T Schlich



CIHR IRSC
Canadian Institutes of Health Research
Instituts de recherche en santé du Canada



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Now, over to all of you...

- With thanks to research participants
(whom I cannot name as per research ethics)
- With thanks to partnered organizations



For more information and further discussion...

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