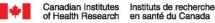


Smarter Caring for a Healthier Canada: Embracing System Innovation

Health Equity Population Health Perspectives

Nancy Edwards, RN, PhD, FCAHS Scientific Director, CIHR-IPPH Professor, University of Ottawa September, 2011 Canadian Academy of Health Sciences

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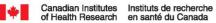
What is Required to Address Health Inequities?

- Describe health inequalities and health inequities
- Understand social causation (e.g. how social stratification gets "under our skin")
- Implement and learn from upstream population health approaches



Socioeconomic Health Inequalities in Rural and Urban Manitoba (Martens, Brownell et al., Sept, 2010), Manitoba Centre for Health Policy

- <u>widened</u> over time (n=12)
 - Premature mortality rate and PYLL
 - Teen pregnancy
 - Diabetes (age 19 and older)
 - Ischemic heart disease
 - Cervical cancer screening
 - Cumulative mental illness (rural only)
 - Hospitalizations for TB (rural only)
- <u>similar</u> over time (n=10)
 - Under 5 mortality
 - Multiple sclerosis
 - Continuity of care (urban only)
 - Dementia
- <u>narrowed</u> over time (n=1)
 - Breastfeeding (urban only)



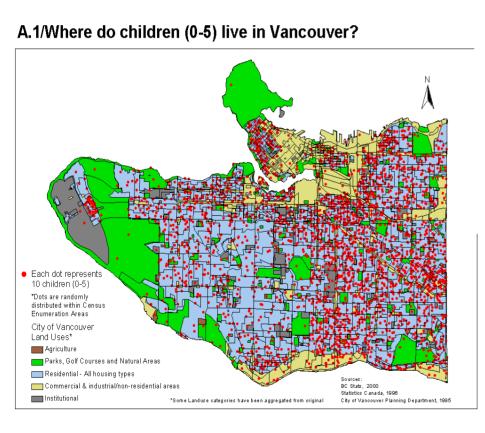
Human Early Learning Partnership http://www.earlylearning.ubc.ca/

 Mapping disparities in the social, language, cognitive and physical development of children on a provincial scale



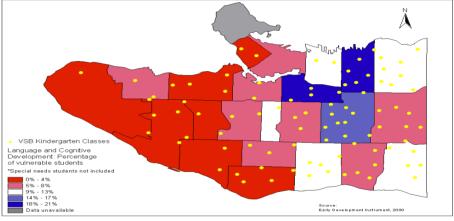
Canadian Institutes of Health Research Community Asset Mapping (Early Years in B.C., Hertzman et al.)

http://secure.cihi.ca/cihiweb/products/ecd_van_e.pdf



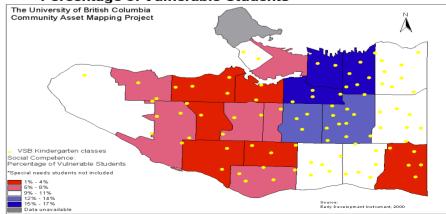
Institute of Populatic

B.1/Language and Cognitive Development: Percentage of Vulnerable Students

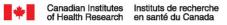


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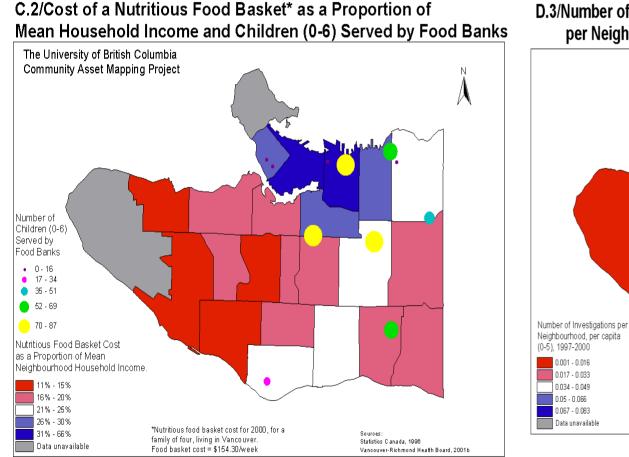
B.3/Social Competence: Percentage of Vulnerable Students



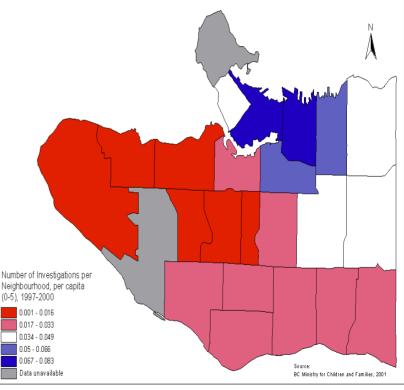




Community Asset Mapping cont'd



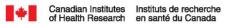
D.3/Number of Child Protection Investigations per Neighbourhood, per capita (0-5), 1997-2000





Institute of Population and Public Health





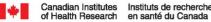
Public Dialogue

Social Determinants Approaches to Public Health: From concept to practice

http://whqlibdoc.who.int/publications/2011/9789241564137_eng.pdf

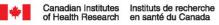
- "Reducing inequities through influencing social determinants is a values-based endeavour that needs careful mapping of perspectives and vested interests of key actors
- in the long haul, the final battle for equity takes place in the public space. Through the media and intelligent use of the evidence and partners, influencing the public debate is within the reach of the health sector." (p. 200)





Understanding Health Inequities Important Advances

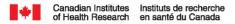
- "Roster" of social and societal conditions across life course produce illness trajectories (Hertzman & Boyce, 2010)
- Re-conceptualization of health risk (nested socio-ecological models, sociopolitical influences, risk regulators)
- Organizational, environmental and policy levers interact to influence behaviour change



Characteristics of Social Causation (Hertzman & Boyce, Ann Rev Public Health, 2010).

- Non-linear
- Non-specific links between putative causes and effects
- Iterative and recursive repeated selfamplifying exposure over time
- Mundane rather than exceptional exposures



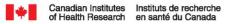


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Calls for action







Population health

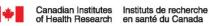
complex interactions (biological, social, cultural, environmental), which determine the health of individuals, communities, and global populations

Population health interventions

programs, policies and resource distribution approaches that have the potential to impact health and health equity at the population level

Population health intervention research

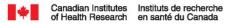
the use of scientific methods to produce knowledge about policy and program interventions that operate within or outside of the health sector and have the potential to impact health at the population level



Revisiting Rose (Manuel and Rosella, IJE, 2010)

- "Too often, advocates of a particular population strategy quote Rose's principal that shifting the curve is the best approach, without this required caveat "when risk is diffused in the population".
- Too often we assume that risk is widely distributed without actually assessing it."



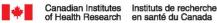


Intervention Options From a Social and Political Perspective

- Decrease exposures
- Shift social stratification
- Decrease vulnerability
- Prevent unequal consequences of differential vulnerability

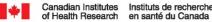
Diderichsen F, Evans T, Whitehead M, 2001





Fundamental Questions About Population Health Interventions

- Universal or targeted programs
- Should policies be pro-poor
- Who should lead and which sector is accountable (health or other sector)
- How to achieve policy coherence across jurisdictions and sectors
- Interventions aimed at proximal (e.g. behaviour change) or distal (e.g. policy) determinants
- Sustainability and scaling-up

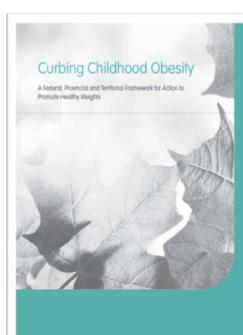


Fawcett, et al., Building multisectoral partnerships for population health and health equity. Prev Chronic Dis 7(6), 2010

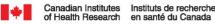
 "Poor performance in achieving population health goals is well-noted — approximately 10% of public health measures tracked are met."

• Contributing factors:

- lack of shared responsibility for outcomes
- lack of cooperation and collaboration
- challenges engaging stakeholders at multiple ecologic levels in building collaborative partnerships for
 population health









Scaling-up Common Elements of Definitions

- Series of processes to introduce innovation(s) with demonstrated effectiveness
- Processes involve organizational and/or political intentionality
- Aim for sustained improvements in coverage of, and <u>equitable access</u> to the innovations
 - Require program delivery structure/strategy



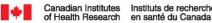
Canadian Institutes of Health Research Institutes de recherche Classes of innovation

Edwards, 2010

Canada

Characteristics
Well-defined, specific dose and delivery parameters, demonstrated efficacy and effectiveness, packaged for ease of delivery.
More complex, less prescriptive, less structured than discrete innovations.
Program components may be required to act synergistically to yield their intended benefits; require adjustment to both characteristics of target population and dynamic implementation contexts.
Involve a major conceptual shift in the way we think about issues and their solutions.
Systems-wide approach and complex set of partnerships.

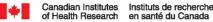
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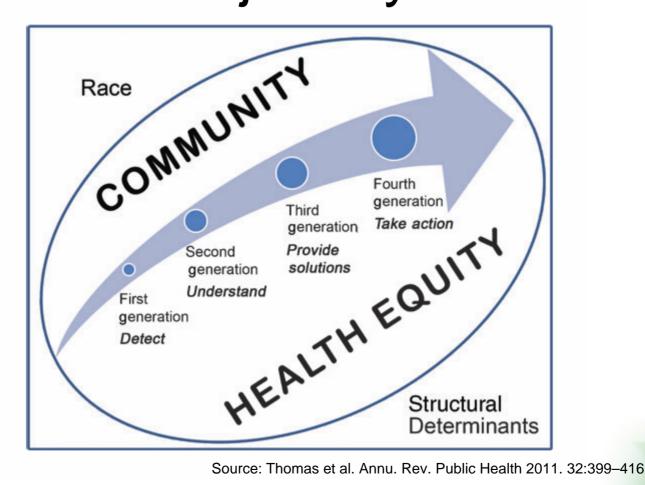
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Scaling Up - What we know

- Scaling up involves a complex chain of pathways, and adaptive changes to the innovation in a dynamic context
- Many factors external to the innovation influence scale-up including system absorption capacity, governance mechanisms, partnerships, political will, leadership, and financial accountability structures
- Policy windows of opportunity may set the stage for initiating scale-up change processes, while alliances may help maintain momentum for longer-term scale-up
- Both horizontal and vertical dimensions of scaling-up are important



Health Equity Action Research Trajectory

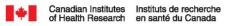


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Canadian Institutes Institutes of Health Research Institutes de n Santé du Care HR Programmatic Grants in Health and Health Equity (n=11, \$21.3M)

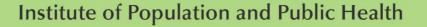
	-
Program Title	PI (Institution)
Recherches et interventions communautaires pour l'équité en santé au Burkina Faso et au Mali	Ridde, Valéry U Montreal
Equity for Children: A program of research into what works to reduce the gap for Manitoba's children	Martens, Patricia U Manitoba
Examining the Impact of Social Policies on Health Equity: Reducing Poverty and Gender Inequality	Heymann, Sally McGill U
Identifying policy interventions to reduce household food insecurity	Tarasuk, Valerie U Toronto
Equity-Oriented Primary Health Care Interventions for Marginalized Populations: Addressing Structural Inequities and Structural Violence	Browne, Annette UBC
Ethics, Social Determinants of Health, and Health Equity: Integrating Theory and Practice Institute of Population and Public Health	Weinstock, Daniel U Montreal
Institute of Population and Public Health	CIHR ÎRSC

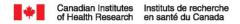




Discussion Questions

- What examples of modifications to 'usual care' have improved health outcomes for marginalized populations?
- What are your top picks for innovative approaches to address health inequities?
- Within your sphere of influence, what specific action(s) can you take on, to address health inequities?





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Thomas, S. B., Quinn, S. C., Butler, J., Fryer, C. S., Garza, M. A. (2011). Toward a Fourth Generation of Disparities Research to Achieve Health Equity. *Annual Review of Public Health, 32,* 399-416: Iddie 10. P1/46/antiourev-publice/alth-031(2)10-101136 CIHR IRSC