



Occupational
Cancer
Research
Centre

The Canadian Cancer Registry Experience

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Canadian
Cancer
Society

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Tumour Registration in Canada



- Complete registration in Canada since 1970 (some provinces earlier)
- Microscopic confirmation: 85-90% of cases
- Death certificate only identification: 2-3%
- Information included:
 - Sex and age
 - Geographic location at diagnosis
 - Cancer Site
 - Histology
 - Laterality
 - Method of confirmation

The Canadian Cancer Registry



- The Canadian Cancer Registry (CCR) includes data collected and reported to Statistics Canada by each provincial/territorial cancer registry
- A widely-used person-based registry with each new primary cancer diagnosed among Canadian residents since 1992:
 - Canadian Cancer Society for Statistical Reports
 - Data with cell counts of greater than 5 are available can be accessed on-line
 - Access to CCR data for researchers available through Statistics Canada Data Centre's
 - Has been linked to the Long-Form Census and other datasets by Statistics Canada



Canadian Cancer Statistics

2019



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of Canada

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Produced by the Canadian Cancer Society, Statistics Canada, the Public Health Agency of Canada,
in collaboration with the provincial and territorial cancer registries
cancer.ca/statistics



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Home → Data → Number and rates of new cases of primary cancer, by cancer type, age group and sex

Number and rates of new cases of primary cancer, by cancer type, age group and sex^{1 2 3 4}

Frequency: Annual

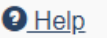


Table: 13-10-0111-01 (formerly CANSIM 103-0550)

Geography: Canada, Province or territory

Save my customizations

Age group

Sex

Total, all ages ▾

Both sexes ▾

Primary types of cancer (ICD-O-3)^{2 3}

Mesothelioma [9050-9055] ▾

Apply

Add/Remove reference period

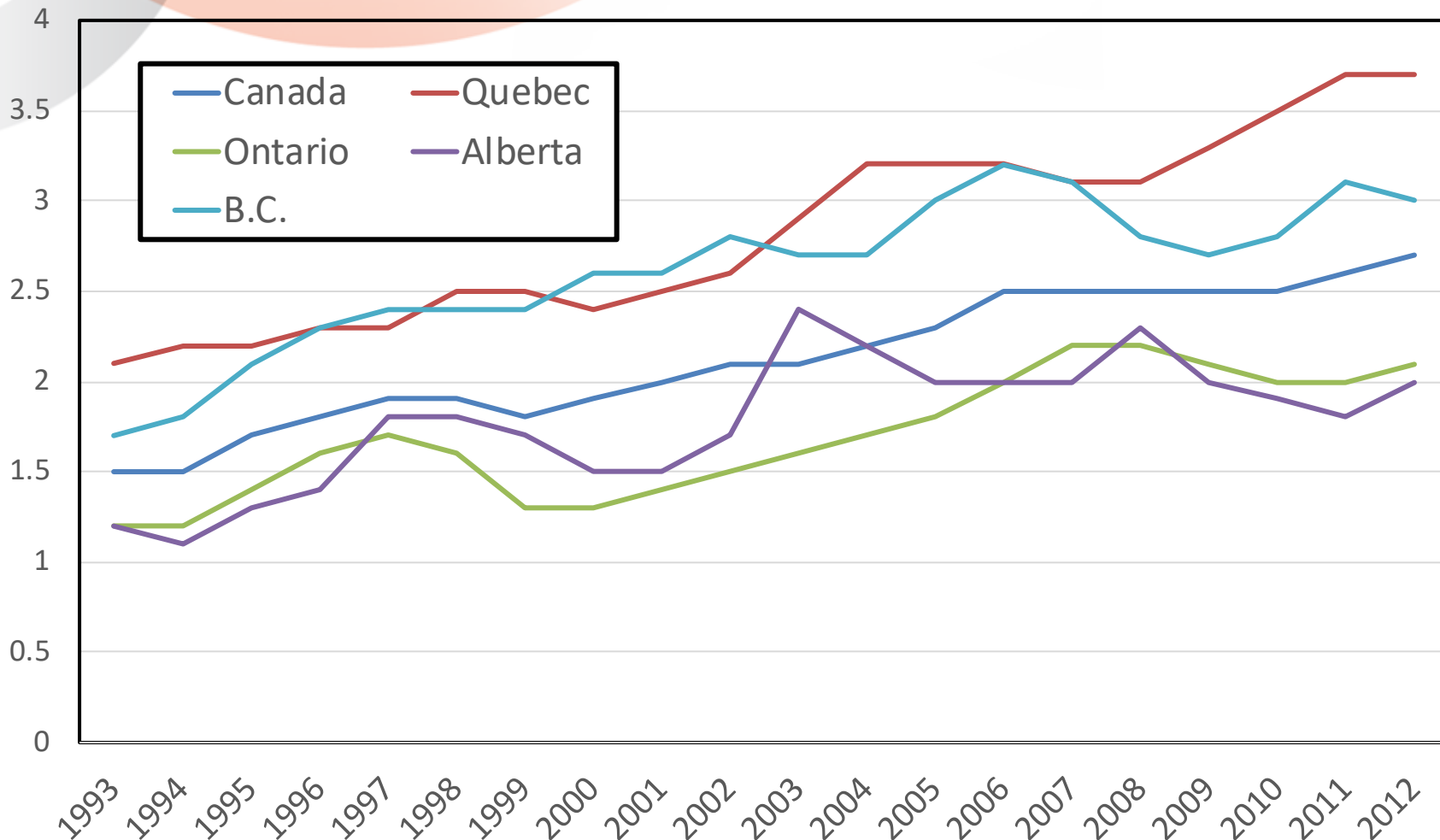
Add/Remove data ⓘ

Download options

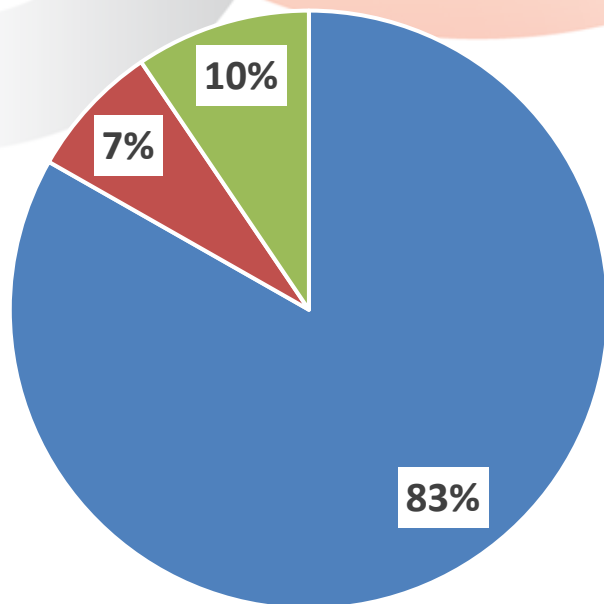
		Total, all ages				
		Both sexes				
		Mesothelioma [9050-9055]				
Geography	Characteristics ^{5 6}	2012	2013	2014	2015	2016
Canada (map)		Number				
	Number of new cancer cases	..	..	..	..	..
		Rate per 100,000 population				
	Cancer incidence ⁷	..	..	..	..	..

Mesothelioma Rates in Canadian Men

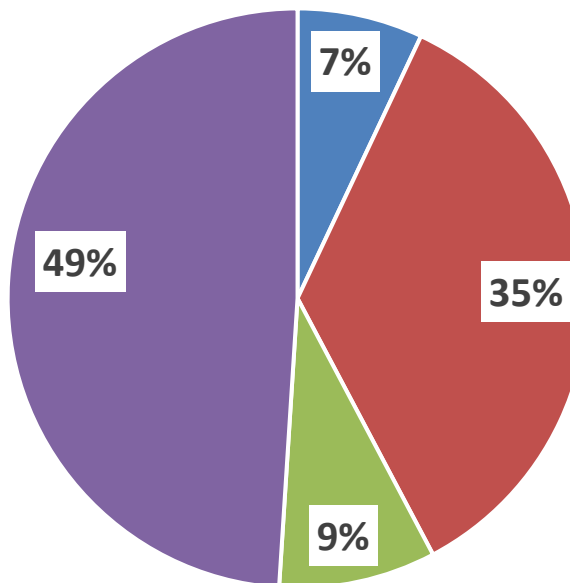
(rate per 100,000, using 3-year rolling average)



Proportion of mesothelioma cases by site & histology, Canada (excl QC) 1992-2015

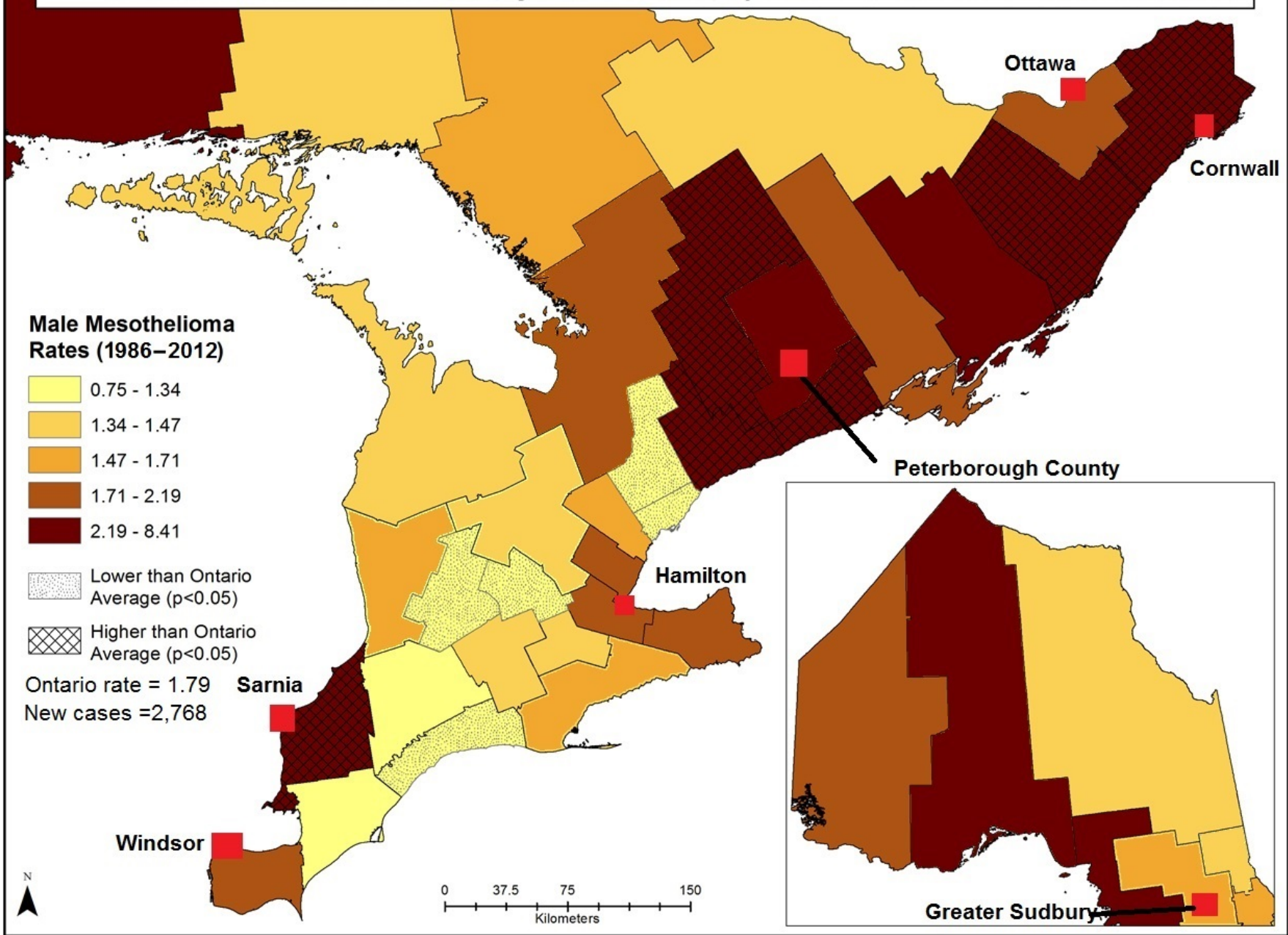


- Pleura
- Peritoneum
- Unknown or Other



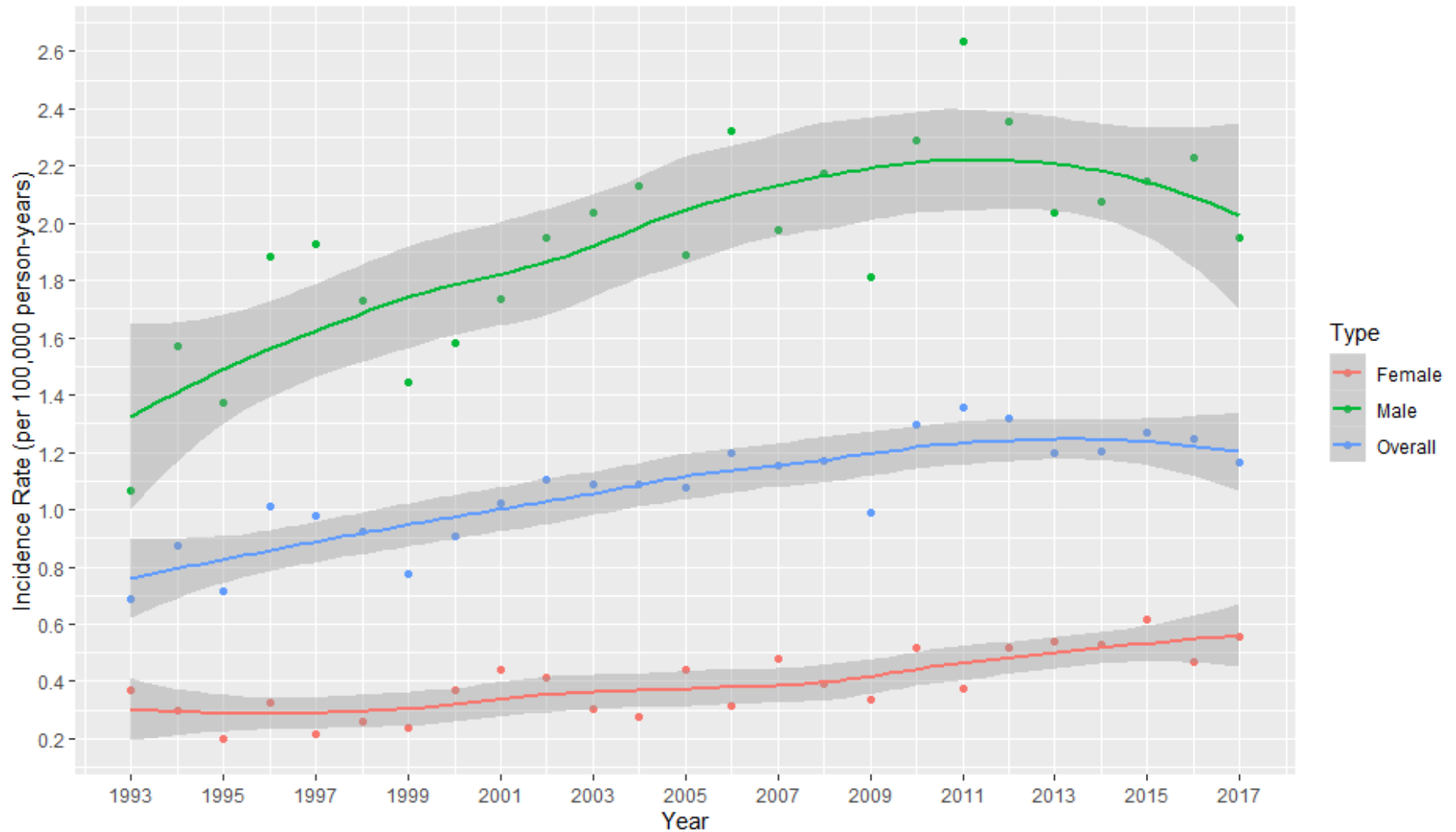
- Biphasic
- Epithelioid
- Fibrous
- Unspecified

Male Mesothelioma Incidence Rates (age-standardized) by Public Health Unit, Ontario, 1986–2012



Mesothelioma Rates in Ontario

Preliminary Analysis



Mesothelioma: Selected ODSS Results



Group	Mesothelioma
Construction trades	2.6 (2.2-3.0)
Construction electricians & repair	2.5 (1.7-3.6)
Foremen	4.8 (2.8-8.1)
Carpenters	2.2 (1.5-3.1)
Plasterers	2.9 (1.4-6.2)
Insulators	25.2 (14.9-42.8)
Pipe fitting and plumbing	7.3 (5.6-9.6)
Machining and related	1.2 (1.0-1.5)
Boilermakers	5.0 (2.4-10.5)
Other occupations	
Industrial, farm & construction machinery mechanics & repairmen	2.4 (1.7-3.2)
Stationary engine & utilities equipment operating	3.9 (2.2-6.7)
Education and Related Services	2.1 (1.5-2.8)

Mesothelioma in Ontario Survival Analysis (1993-2017, predictors from linkage)



Predictor	Category	Hazard Ratio (95% CI)
Median Neighborhood Household Income (quintile)	5 (highest)	1.00 (reference)
	4	1.02 (0.91-1.14)
	3	1.00 (0.89-1.12)
	2	0.96 (0.85-1.07)
	1 (lowest)	1.02 (0.91-1.15)
Geographic Area	Urban	1.00 (reference)
	Rural	0.95 (0.87-1.04)

Strengths

- National registration beginning in 1970
- Representative statistics
- Public and researcher access to data
- Ability to do provincial & national linkage

Limitations

- Lack of information on exposure
- Very limited clinical data
- Reflects the limitations of individual registries

No conflicts of interest to report

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Public Health
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Agence de la santé
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